

SOLUTIONS FOR BORING, DRILLING & CUTTING



2008 Catalog

Industrial Grade Boring & Cutting Tools

- Since 1890



FOREST CITY TOOL, INC

620 23RD STREET NW
HICKORY, NC 28601

800.343.8944 • FAX 828.322.6224

www.forestcitytool.biz



**U. S. PATENT 7189036
SELF CLEAN HOLE SAW**

**U.S. PATENT 544892
SELF FEED STUD BUSTER**



LETTER FROM THE PRESIDENT . . .

Welcome to our expanded new 2008 master catalog and thank you for choosing Forest City Tool, Inc.

In 2003, Bobbie and I purchased Forest City Tool and since then our lives have been a little more interesting to say the least. We have strived to re-build Forest City Tool on the enduring principles of honesty, integrity and family. As champions of the American worker, we have dedicated tremendous resources to creating jobs and keeping them here in North Carolina. Being firm believers that a company that goes stagnant goes away, we have dedicated resources for research, development and innovation. This dedication is evidenced by the tooling patents and innovation awards received by Forest City Tool during the past five years. To this end, we have also upgraded manufacturing processes and added state of the art CNC equipment to give our team every advantage possible. Our efforts are specifically directed to manufacturing the highest quality tool at a very reasonable price. When you study the number of holes you drill with Forest City tooling, you soon discover that quality materials, quality craftsmanship, and efficient processes produce the most economical tools. Simply put, the tools last longer thus reducing your cost in producing your product.

As you browse our new catalog, you'll notice a distinct difference from Forest City Tool catalogs of the past. We have added new products and refined old ones to better suit our customer's needs and requests. You'll find that almost every item in our 2008 catalog is on the shelf and available for same day shipping. If you don't see the tooling you need within the pages of this catalog, just call us for a free same day quote. We also manufacture a tremendous amount of custom and modified standard tools everyday and we would welcome the opportunity to work with you on your special projects.

We value each of our customers and through your support we will continue to promote American manufacturing so that "Made in the USA" lives on.

Thank you and we look forward to serving you!

Sincerely,

William (Bill) Whiteside



Forest City Tool, Inc
620 23rd Street NW
Hickory, North Carolina 28601

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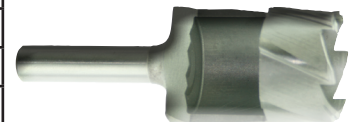
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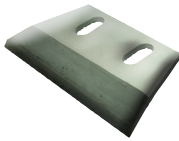


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General Terms

Payment Terms:

Net 30 days from invoice date.

Freight Terms:

F.O.B.

Hickory, NC

Minimum Order:

\$50 net invoice charge.

Drop Ship Fee:

FOREST CITY TOOL reserves the right to charge a drop ship fee on all shipments.

Minimum Quantities:

Prices quoted are based on purchases of standard pack quantities as indicated. Orders received for quantities other than standard pack multiples will be increased to the next highest standard pack multiple.

Technical Data:

Any technical specifications or drawings provided by FOREST CITY TOOL remain the property of FOREST CITY TOOL and may not be used or duplicated without the written permission of FOREST CITY TOOL.

Warranty:

FOREST CITY TOOL products are guaranteed against defects in workmanship. This warranty is limited to replacement of any tools that do not meet our precise manufacturing guidelines. The product in question must be returned to FOREST CITY TOOL for analysis. If appropriate, the product will be repaired or replaced.

Loss or Damage:

Items damaged in transit are the responsibility of the carrier. Claims should be filed with the delivery transportation company. When filing claims, freight carriers customarily require a copy of the invoice, bill of lading and delivery receipt as well as a description of the damage. Claims for shortage and lost shipments must be made in writing to FOREST CITY TOOL, Hickory, North Carolina within 10 days from the date of shipment. Claims not reported within this period of time will not be allowed.

Router Bits:

All router bits will be shipped in bulk. Carbide Tipped and solid carbide available in pouches upon request at no extra charge.

Phone: 800-343-8944 or 828-322-4266

Fax: 828-322-6224

Returned Goods:

Only current price list products may be returned for credit. No special or discontinued items will be accepted for credit.

All returned goods must have prior approval. A Returned Materials Authorization Number can be obtained by calling or faxing FOREST CITY TOOL's Customer Service Department and supplying the FOREST CITY TOOL invoice number, item number and the quantity being returned. Shipments of returned goods to FOREST CITY TOOL must be identified with the RGA number on the outside of the carton and on the shipper's packing list. Failure to provide this information will result in the full 20% restocking fee being assessed. In cases of warranty claims, please follow this same procedure and advise the nature of the claim.

FOREST CITY TOOL invoice number must be provided at the time return is requested. Failure to do so will result in credit issued at the lowest price in effect 24 months prior to the return.

Standard product may be returned for full credit within thirty days of purchase without being assessed a restocking fee. Any returns older than thirty days will be assessed a 20% restocking fee, however, the restocking fee will be waived with an accompanying order to FOREST CITY TOOL of twice the value of the return requested. Returns of \$500.00 or more must have written authorization. This can be done by fax. Products returned must be in resaleable condition, including packaging. We reserve the right to assess a restoration charge (time and material) on returned product that is not shelf ready. Return freight is the responsibility of the purchaser. Used, shelf-worn, abused, special or products purchased prior to August 2003 will not be accepted for credit. These will be returned to the customer at their expense.

Trademarks:

All persons are cautioned against misuse of any FOREST CITY TOOL trademarks and trade names. These include: SELF CLEAN, DEEP COR, CLASSIC SABRE, M-2, RADI-ALL, CLASSIC 911, SUPER WEAR, SUPER GRIND, UNI-PRO, STUDBUSTER, FOREST CITY TOOL.

Warning:

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Contact Us for a Local Distributor

**ASK for Forest City products by name.
If it doesn't say "FOREST CITY",
it's not Forest City Tooling!!**

VISIT OUR WEBSITE

<http://forestcitytool.biz>

1/4" HEX SHANK TOOLS



4 FLUTE 82° ADJ. COUNTERSINKS HIGH SPEED STEEL (No. 807)

Manufactured from high speed steel, CNC ground and through hardened to offer long life when countersinking holes in fiberglass, aluminum, and wood. Socket set screw holds countersink firmly in place. Use with high speed steel general purpose jobber drills or taper point drills.

Product Number	Countersink Size	Drill Size	Screw Size
8070004	5/16"	7/64"	#4
8070005	3/8"	1/8"	#5
8070006	3/8"	9/64"	#6
8070007	3/8"	5/32"	#7
8070008	3/8"	11/64"	#8
8070009	3/8"	3/16"	#9
8070010	7/16"	13/64"	#10
8070012	1/2"	7/32"	#12
8070014	1/2"	1/4"	#14
8070102	1/2"	13/64"	#10



P/N 8070014

4 FLUTE 82° ADJ. COUNTERSINKS CARBON STEEL (No. 813)

Manufactured from carbon steel for longer wear when countersinking holes in plastic, aluminum, and wood. Socket set screw holds countersink firmly in place. Use with high speed steel general purpose jobber drills or taper point drills.

Product Number	Countersink Size	Drill Size	Screw Size
8130004	5/16"	7/64"	#4
8130005	3/8"	1/8"	#5
8130006	3/8"	9/64"	#6
8130007	3/8"	5/32"	#7
8130008	3/8"	11/64"	#8
8130009	3/8"	3/16"	#9
8130010	7/16"	13/64"	#10
8130012	1/2"	7/32"	#12
8130014	1/2"	1/4"	#14



P/N 8130014

4 FLUTE 813 SERIES COUNTERSINKS WITH TAPER POINT DRILL (No. 813)

Used to Countersink & Countebore holes for screws in wood, plastic and non-ferrous metals.

Drill bit is included with the countersink.

Product Number	Screw Size	Drill Size
62886	#5	1/8"
62887	#6	9/64"
62888	#7	5/32"
62889	#8	11/64"
62890	#10	3/16"
62891	#12	7/32"
62892	#14	1/4"
62893	7 pc 813 Series Set w/ Taper Point Drills	



P/N 62893

#5, #6, #7, #8, #10
#12, #14

CHUCKS

Quick Change Chucks work with ALL 1/4" Hex Shank Tools.

Product Number	Description
62397	QC Power Bit Extension w/ All-Hex QC Chuck 3"
62398	QC power Bit Extension w/ All-Hex QC Chuck 6"
62399	All Hex 1/4" Chuck w/ 3/8" Shank
62400	1/4" QC Chuck, Replaces 3/8"-24 Female Thread Permanent Keyed & Keyless Chucks
62401	1/4" QC Chuck, Replaces 1/2"-20 Female Thread Permanent Keyed & Keyless Chucks
62495	1/4" QC Chuck, Designed for 1/4" Screw Gun



COUNTERSINK STOP COLLARS

Use with 4 flute countersinks to adjust depth of cut.

Product Number	DIAMETER
63290	1/4"
63291	5/16"
63292	3/8"
63293	7/16"
63294	1/2"



COUNTERSINK, TOOL STEEL - SINGLE FLUTE

Use to countersink, chamfer and de-burr holes in wood, metal and plastics.

Product Number	DESCRIPTION
63534	82° POINT
63535	100° POINT



DEEP WELL NUT SETTERS

Quick change deep well nut setters are hardened for long life and have quick change shank.

Product Number	Size
63553	5 pc SET
63554	1/4"
63555	5/16"
63556	3/8"
63557	7/16"
63558	1/2"



P/N 63553
1/4", 5/16", 3/8",
7/16", 1/2"



1/4" HEX SHANK TOOLS

(Continued)

DRILL ADAPTORS

Easily adapt standard straight shank drills to a speedy quick change shank. Set screws hold drill firmly in adaptor.

Product Number	Size
63540	1/16"
63541	5/64"
63542	3/32"
63543	7/64"
63544	1/8"
63545	9/64"
63546	5/32"
63547	11/64"
63548	3/16"
63549	13/64"
63550	7/32"
63551	15/64"
63552	1/4"



135° SPLIT POINT JOBBERS

General purpose high speed steel 135 degree split point jobber drills. Excellent for drilling in metal, plastics and wood. Provided with 1/4" Hex Shank.



135° SPLIT POINT JOBBER

Product Number	Diameter	OAL
63492	1/16" - 1/4"	7 PC SET
63495	1-16"	2-3/4"
63496	5/64"	3"
63497	3/32"	3-1/4"
63498	7/64"	3-3/4"
63499	1/8"	3-3/4"
63500	9/64"	4"
63501	5/32"	4"
63502	11/64"	4"
63503	3/16"	4-1/4"
63504	13/64"	4-3/8"
63505	7/32"	4-1/2"
63506	15/64"	4-3/4"
63507	1/4"	4-3/4"



7 PC JOBBER SET
P/N 63492

1/16", 3/32", 1/8",
5/32", 3/16",
7/32", 1/4"

PLUG CUTTERS, TAPERED

Tapered plug cutters produce smooth accurate plugs that are smaller on one end to allow easy starting in counterbored holes.

Product Number	Diameter
63275	1/4"
63276	5/16"
63277	3/8"
63278	7/16"
63279	1/2"



2"SCREWDRIVER BITS & ACCESSORIES

Product Number	Description
63566	#1 PHILLIPS
63567	#2 PHILLIPS
63568	#6 - 8 SLOTTED
63569	#8 - 10 SLOTTED
63570	#2 SQUARE
63571	1/4" SOCKET ADAPTOR
63572	3/8" SOCKET ADAPTOR
63573	1/2" SOCKET ADAPTOR

NOTE: SOLD IN 10 Piece Packs



P/N 63567

SELF CENTERING BITS

Self centering bits allow fast accurate drilling of holes for hinges, striker plates, window pulls, door butts and all hardware using screws.

Product Number	Size
63574	3 pc SET
63559	#3 - 5/64"
63560	#4 - 3/32"
63561	#5 & #6 - 7/64"
63562	#6 - 1/8"
63563	#8, #9, #10 - 9/64"
63564	#14 - 1/4"
63565	Shelf Pin - 5 mm



P/N 63574
3 PC SET
#6, #8, & #10

TAPER POINT DRILLS

General purpose high speed steel taper point drills with quick change hex shank. Use for drilling tapered holes for wood screws. Use with countersink to drill tapered hole and countersink for woodscrew head.



Product Number	Diameter	Flute	OAL
62720	1/8"	2-3/4"	5-1/8"
62721	9/64"	3"	5-3/8"
62722	5/32"	3"	5-3/8"
62723	11/64"	3-3/8"	5-3/4"
62724	3/16"	3-3/8"	5-3/4"
62725	7/32"	3-5/8"	6"
62726	1/4"	3-3/4"	6-1/8"

For 13/64" QC Taper Point Drill USE:
63549 Adaptor (pg 3) and 62245 Drill (pg 10)

Continued Next Page . . .

1/4" HEX SHANK

(CONTINUED)

TAPER DRILLS / COUNTERSINKS / PLUG CUTTER SET (No.813 Series)

Product Number	Description
8130020	#6, #8, #10, #12, #14 Countersink; Hex Shank Taper Drills; 3/8" Plug Cutter; 1/4" QC Chuck w/ 3/8" Shank; Allen Wrench

P/N 8130020



WOOD SCREW COUNTERSINKS

Quick change drill/countersink combination allows this tool to drill the pilot hole for a wood screw, the shoulder and countersink the head all in one operation.

Product Number	SIZE
63526	5 PC SET #4 - #12
63529	#4
63530	#6
63531	#8
63532	#10
63533	#12



5 pc SET
P/N 63526
#4, #6, #8,
#10, #12

VIX BITS

SELF CENTERING BITS (No. 137)



For accurately centering and drilling holes for Hinges, Striker Plates, Door Butts, Window Pulls, and all hardware using screws.

Product Number	Size	Description
62363	5/64"	#3 & #4 - with 1/4" Shank
62359	7/64"	#5 & #6 - with 1/4" Shank
62360	9/64"	#8, #9, & #10 - with 1/4" Shank
62364	11/64"	#12 with 1/4" Shank
62365	13/64"	#14 with 1/4" Shank
62366	5 MM	Shelf Pin - 1/4" Shank
62367	1/4"	Shelf Pin - 1/4" Shank
REPLACEMENT DRILLS		
62368	5/64"	Replacement Bit
62361	7/64"	Replacement Bit
62362	9/64"	Replacement Bit
62369	11/64"	Replacement Bit
62370	13/64"	Replacement Bit
62371	5 MM	Replacement Bit
62372	1/4"	Replacement Bit

EUROPEAN TOOLS

10MM SHANK

BRAD POINT CT SPUR DRILLS (M200) INCH SIZES

For European boring machines. Designed for shelving hardware and concealed hinges. Shanks are 10 mm diameter by 20 mm long with flat and adjusting screw.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter	OAL (MM)
63300	63303	3/16"	57
63301	63304	7/32"	57
63302	63305	1/4"	57
63306	63312	3/16"	70
63307	63313	7/32"	70
63308	63314	1/4"	70
63309	63315	3/8"	70
63310	63316	7/16"	70
63311	63317	1/2"	70



BRAD POINT CT SPUR DRILLS (M200) METRIC SIZES

For European boring machines. Designed for shelving hardware and concealed hinges. Shanks are 10 mm diameter by 20 mm long with flat and adjusting screw.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter (MM)	OAL (MM)
63318	63331	4	57
63319	63332	5	57
63320	63333	6	57
63321	63334	7	57
63322	63335	8	57
63323	63336	9	57
63324	63337	10	57
63325	63338	11	57
63326	63339	12	57
63327	63340	13	57
63328	63341	14	57
63329	63342	15	57
63330	63343	16	57
63344	63357	4	70
63345	63358	5	70
63346	63359	6	70
63347	63360	7	70
63348	63361	8	70
63349	63362	9	70
63350	63363	10	70
63351	63364	11	70
63352	63365	12	70
63353	63366	13	70
63354	63367	14	70
63355	63368	15	70
63356	63369	16	70



EUROPEAN TOOLS

10MM SHANK (CONTINUED)

BRAD POINT SPUR DRILLS SOLID CARBIDE

P/N Right Rotation	P/N Left Rotation	Cutting Diameter (MM)	OAL (MM)
63370	63375	3	57
63371	63376	4	57
63372	63377	5	57
63373	63378	6	57
63374	63379	8	57
63380	63385	3	70
63381	63386	4	70
63382	63387	5	70
63383	63388	6	70
63384	63389	8	70



THRU V POINT BITS - METRIC SIZES CARBIDE TIPPED (M201)

60° point leaves clean holes on the back side of material. Shanks are 10 mm diameter by 20 mm long with flat and adjusting screw.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter (MM)	OAL (MM)
63404	63416	4	57
63405	63417	5	57
63406	63418	6	57
63407	63419	7	57
63408	63420	8	57
63409	63421	9	57
63410	63422	10	57
63411	63423	11	57
63412	63424	12	57
63413	63425	13	57
63414	63426	14	57
63415	63427	15	57
63428	63440	4	70
63429	63441	5	70
63430	63442	6	70
63431	63443	7	70
63432	63444	8	70
63433	63445	9	70
63434	63446	10	70
63435	63447	11	70
63436	63448	12	70
63437	63449	13	70
63438	63450	14	70
63439	63451	15	70



HINGE BORING BITS CARBIDE TIPPED (M811)

For European boring machines. Designed for concealed hinges. Shanks are 10 mm by 20 mm long with flat and adjusting screw.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter (MM)	OAL (MM)
63472	63477	15	57
63473	63478	20	57
63474	63479	25	57
63475	63480	30	57
63476	63481	35	57
63482	63487	15	70
63483	63488	20	70
63484	63489	25	70
63485	63490	30	70
63486	63491	35	70



THRU V POINT BITS - INCH SIZES CARBIDE TIPPED (M201)

60° point leaves clean holes on the back side of material. Shanks are 10 mm diameter by 20 mm long with flat and adjusting screw.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter	OAL (MM)
63390	63391	1/4"	57
63392	63398	3/16"	70
63393	63399	7/32"	70
63394	63400	1/4"	70
63395	63401	3/8"	70
63396	63402	7/16"	70
63397	63403	1/2"	70



THRU V POINT BITS - METRIC SIZES SOLID CARBIDE (M201)

Made of solid carbide, the 60° point leaves clean holes on the back side of material. Shanks are 10 mm diameter by 20 mm long with flat and adjusting screw.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter (MM)	OAL (MM)
63452	63457	3	57
63453	63458	4	57
63454	63459	5	57
63455	63460	6	57
63456	63461	8	57
63462	63467	3	70
63463	63468	4	70
63464	63469	5	70
63465	63470	6	70
63466	63471	8	70



Forest City Boring Bits

CARBIDE-TIPPED MULTI-SPUR MACHINE BITS (NO. 149CT)



Same as No. 149 Multi-Spur but furnished with carbide tips.

Product Number	Diameter	Shank Diameter	Nominal OAL
62779	3/4"	1/2"	6"
62780	7/8"	1/2"	6"
62781	15/16"	1/2"	6"
62782	1"	1/2"	6"
62783	1-1/16"	1/2"	6"
62784	1-1/8"	1/2"	6"
62785	1-3/16"	1/2"	6"
62786	1-1/4"	1/2"	6"
62787	1-5/16"	1/2"	6"
62788	1-3/8"	1/2"	6"
62789	1-7/16"	1/2"	6"
62790	1-1/2"	1/2"	6"
62791	1-9/16"	1/2"	6"
62792	1-5/8"	1/2"	6"
62793	1-3/4"	1/2"	6"
62794	1-7/8"	1/2"	6"
62795	2"	1/2"	6"
62796	2-1/8"	1/2"	6"
62811	2-1/4"	1/2"	6"
62812	2-3/8"	1/2"	6"
62813	2-1/2"	1/2"	6"
62814	2-5/8"	1/2"	6"
62815	2-3/4"	1/2"	6"
62816	3"	1/2"	6"
62817	3-1/4"	3/4"	6"
62818	3-1/2"	3/4"	6"
62819	3-3/4"	3/4"	6"
62820	4"	3/4"	6"
62821	3-1/4"	1/2"	6"
62822	3-1/2"	1/2"	6"
62823	3-3/4"	1/2"	6"
62824	4"	1/2"	6"
149CT-4500	4-1/2"	3/4"	6"
149CT-5000	5"	3/4"	6"

Note: 3-1/4", 3-1/2", 3-3/4", and 4" bits are available with 1/2" shanks for light duty applications that do not overstress the shank. 1/2" shanks in these larger diameter bits are not recommended for medium or heavy duty applications.

Bits 2-1/4" through 3" are furnished with 2-1/4" long reinforced shaft and 1/2" x 2-3/4" shank.

MULTI-SPUR MACHINE BITS (NO. 149)



Cutting edge is precision ground at the best angle to bore fast and lift chips cleanly up and out of the hole. Multiple outlining spurs bore clean holes without chipping or splintering the surface of the wood. Perfect for boring through veneers.

- Works equally well across or with the grain.
- Excellent for boring overlapping holes or on close centers.
- Careful heat-treating assures tough, uniformly hard cutting edges, plus long bit life.
- Precision made and finished, plus careful inspection after each step in manufacturing means you get uniform quality in every Multi-Spur you buy.
- Brad point design for positive centering.

Product Number	Diameter	Shank Diameter	Nominal Overall Length
62736	1/2"	1/2"	6"
62737	9/16"	1/2"	6"
62738	5/8"	1/2"	6"
62739	11/16"	1/2"	6"
62740	3/4"	1/2"	6"
62741	13/16"	1/2"	6"
62742	7/8"	1/2"	6"
62743	15/16"	1/2"	6"
62744	1"	1/2"	6"
62745	1-1/16"	1/2"	6"
62746	1-1/8"	1/2"	6"
62747	1-3/16"	1/2"	6"
62748	1-1/4"	1/2"	6"
62749	1-5/16"	1/2"	6"
62750	1-3/8"	1/2"	6"
62751	1-7/16"	1/2"	6"
62752	1-1/2"	1/2"	6"
62753	1-9/16"	1/2"	6"
62754	1-5/8"	1/2"	6"
62755	1-11/16"	1/2"	6"
62756	1-3/4"	1/2"	6"
62757	1-13/16"	1/2"	6"
62758	1-7/8"	1/2"	6"
62759	1-15/16"	1/2"	6"
62760	2"	1/2"	6"
62761	2-1/8"	1/2"	6"
62762	2-1/4"	1/2"	6"
62763	2-3/8"	1/2"	6"
62764	2-1/2"	1/2"	6"
62765	2-5/8"	1/2"	6"
62766	2-3/4"	1/2"	6"

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Forest City Boring Bits

MULTI-SPUR MACHINE BITS (NO. 149) (Continued . . .)

Product Number	Diameter	Shank Diameter	Nominal OAL
62767	2-7/8"	1/2"	6"
62768	3"	1/2"	6"
62769	3-1/8"	3/4"	6"
62770	3-1/4"	3/4"	6"
62771	3-1/2"	3/4"	6"
62772	3-3/4"	3/4"	6"
62773	4"	3/4"	6"
62774	3-1/8"	1/2"	6"
62775	3-1/4"	1/2"	6"
62776	3-1/2"	1/2"	6"
62777	3-3/4"	1/2"	6"
62778	4"	1/2"	6"
149-4500	4-1/2"	3/4"	6"
149-5000	5"	3/4"	6"

Note: 3-1/8", 3-1/4", 3-3/4", and 4" bits are available with 1/2" shanks for light duty applications that do not overstress the shank. 1/2" shanks in these larger diameter bits are not recommended for medium or heavy duty applications.
Bits 2-1/4" through 3" are furnished with 2-1/4" long reinforced shaft and 1/2" x 2-3/4" shank.

SELF FEED SCREW POINT WOOD BORING BIT



The Self Feed Wood Boring Bit is heat treated and hardened for durability. The self-feed design guides the bit into the wood. Quick-change shanks provide fast and secure change-out. Cuts clean, accurate holes in wood. Lead screw is removable and replaceable.

Product Number	Diameter	Millimeter
69301	1"	25
69302	1-1/8"	29
69303	1-1/4"	32
69304	1-3/8"	35
69305	1-1/2"	38
69306	1-3/4"	44
69307	2"	51
69308	2-1/8"	54
69309	2-1/4"	57
69310	2-9/16"	65
69311	3"	76
69312	3-5/8"	92
69313	4-5/8"	117
69314	5-1/2" Extension	
69315	8 Pc Kit	1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2-1/8", 2-9/16", 5-1/2" Extension
69316	4 Pc Contractor Kit	1-3/8", 1-1/2", 2-1/8", 2-9/16"

CARBIDE-TIPPED 2-WING DRILLS (NO. 811CT)

Bores clean, accurate holes in plastic laminates and wood. Spur outlines the hole before the chip lifters plane the material; helps prevent cracked edges. Includes solid carbide point.

Product Number	Diameter	Shank Diameter	Nominal Overall Length
62797	1"	1/2"	6"
62798	1-1/8"	1/2"	6"
62799	1-1/4"	1/2"	6"
62800	1-3/8"	1/2"	6"
62801	1-1/2"	1/2"	6"
62802	1-5/8"	1/2"	6"
62803	1-3/4"	1/2"	6"
62804	1-7/8"	1/2"	6"
62805	2"	1/2"	6"
62806	2-1/8"	1/2"	6"
62807	2-1/4"	1/2"	6"
62808	2-1/2"	1/2"	6"
62809	2-3/4"	1/2"	6"
62810	3"	1/2"	6"

Note: Only 2-1/4" through 3" diameter drills are furnished with 2-1/4" long reinforced shaft.



CARBIDE-TIPPED 3-WING DRILLS (NO. 812CT)

Designed to bore plastic Formica™ and tempered Masonite™ as well as abrasive materials and hard woods.

Product Number	Diameter	Shank Diameter	Nominal Overall Length
**62825	1/2"	1/2"	6"
**62826	9/16"	1/2"	6"
**62827	5/8"	1/2"	6"
62828	11/16"	1/2"	6"
62829	3/4"	1/2"	6"
62830	13/16"	1/2"	6"
62831	7/8"	1/2"	6"
62832	1"	1/2"	6"
62833	1-1/8"	1/2"	6"
62834	1-1/4"	1/2"	6"
62835	1-3/8"	1/2"	6"
62836	1-1/2"	1/2"	6"
62837	1-5/8"	1/2"	6"
62838	1-3/4"	1/2"	6"
62839	1-7/8"	1/2"	6"
62840	2"	1/2"	6"
62841	2-1/8"	1/2"	6"
62842	2-1/4"	1/2"	6"
62843	2-1/2"	1/2"	6"

Note:**Reduced shank behind wings. Only 2" through 2-1/2" diameter drills are furnished with 2-1/4" long reinforced shaft.



Forest City Boring Bits

BORING BITS FOR DOOR BORING FIXTURES



SCHLAGE QUICK RELEASE MULTI-SPUR BITS

Product Number	Diameter	OAL	Fixture
128112	1"	8"	SCHLAGE
128830	1-1/2"	7"	SCHLAGE
128114	2-1/8"	7"	SCHLAGE



TEMPLACO QUICK RELEASE MULTI-SPUR BITS

Product Number	Diameter	OAL	Fixture
128112	1"	8"	TEMPLACO
128830	1-1/2"	7"	TEMPLACO
128114	2-1/8"	7"	TEMPLACO



P/N 128836



P/N 129274

WEISER LOCK MULTI-SPUR & AUGER BITS

Product Number	Diameter	OAL	Fixture
128836	1"	13"	WEISER
129274	2-1/8"	7"	WEISER

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Forest City Straight Shank Brad Point Drill Sets

7 PC BRAD POINT SET & REPLACEMENTS



7-PC. Brad Point Wood Boring Drill Set (In Plastic Pouch)

Product Number	Description
62546	Includes 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", and 1/2" drills

Replacement Drills for Product Number 62546 shown above

Product Number	Dia.	Shank Length	Shank Dia.	Twist Length	Overall Length
62547	1/8"	1-1/4"	1/8"	1-1/2"	2-7/8"
62548	3/16"	1-3/4"	3/16"	1-3/4"	3-1/2"
62541	1/4"	1-1/4"	1/4"	3-1/8"	4-3/8"
62542	5/16"	1-1/4"	5/16"	3-1/8"	4-3/8"
62543	3/8"	1-1/4"	3/8"	3-1/8"	4-3/8"
62544	7/16"	1-1/4"	3/8"	3-1/8"	4-3/8"
62545	1/2"	1-1/4"	3/8"	3-1/8"	4-3/8"

5 PC BRAD POINT SET & REPLACEMENTS



5-PC. Brad Point Wood Boring Drill Set (In Plastic Case)

Product Number	Description
62540	Includes 1/4", 5/16", 3/8", 7/16", and 1/2" drills

Replacement Drills for Product Number 62540 shown above

Product Number	Diameter	Shank Length	Shank Diameter
62541	1/4"	1-1/4"	1/4"
62542	5/16"	1-1/4"	5/16"
62543	3/8"	1-1/4"	3/8"
62544	7/16"	1-1/4"	3/8"
62545	1/2"	1-1/4"	3/8"

Additional Specifications: All Twist Lengths: 3-1/8"
All Overall Lengths: 4-3/8"

MADE IN THE USA
Toll Free 1-800-343-8944

Forest City Center Drills

HIGH-SPEED STEEL BRAD POINT CENTER DRILL (NO. X122-BEDLOCK)



Popular for cross-grain boring and other general work requiring smooth, accurate holes. Head, twist, and shank are ground after hardening.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62381	19/64"	3-1/2"	6"	Right

HIGH-SPEED STEEL STRAIGHT SHANK BRAD POINT CENTER DRILLS (NO. X122B8)



Designed for use with No. 122EL Adjustable Counterbore. For counterboring in table aprons. Can also be used in regular style No. 122 Adjustable Counterbores when a deep pilot hole is required.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62382	3/16"	3-1/2"	8"	Right
62383	7/32"	3-1/2"	8"	Right
62384	1/4"	3-1/2"	8"	Right

HIGH-SPEED STEEL STRAIGHT SHANK BRAD POINT CENTER DRILLS (NO. X122B)



For use with all types of adjustable counterbores and countersinks or for straight boring jobs. Two outlining spurs and brad point produce clean, accurate holes. High-speed steel for extra tool life.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62385	1/8"	2-1/4"	6"	Right
62386	5/32"	2-1/4"	6"	Right
62387	3/16"	2-1/4"	6"	Right
62388	7/32"	2-1/4"	6"	Right
62389	1/4"	2-1/4"	6"	Right
62390	9/32"	2-1/4"	6"	Right
62391	19/64"	2-1/4"	6"	Right
62392	5/16"	2-1/4"	6"	Right
62393	3/8"	2-1/4"	6"	Right
62394	3/16"	2-1/4"	6"	Left
62395	7/32"	2-1/4"	6"	Left
62396	1/4"	2-1/4"	6"	Left

1/4 X 4-1/2 INCH SHANK CARBON STEEL BRAD POINT CENTER DRILLS (NO. 122C)



Designed to use with countersinks and counterbores with 1/4" hole. Works well in applications where countersink and center drill diameters are too close for a standard configuration center drill.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62469	5/16"	1-1/2"	6"	Right
62470	3/8"	1-1/2"	6"	Right
62471	7/16"	1-1/2"	6"	Right
62472	1/2"	1-1/2"	6"	Right

HIGH-SPEED STEEL STRAIGHT SHANK BRAD POINT CENTER DRILLS (NO. X124B)



For use with countersinks and counterbores.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62402	1/8"	2-1/4"	4-1/2"	Right
62403	5/32"	2-1/4"	4-1/2"	Right
62404	3/16"	2-1/4"	4-1/2"	Right
62405	7/32"	2-1/4"	4-1/2"	Right
62406	1/4"	2-1/4"	4-1/2"	Right
70525	5/16"	2-1/4"	4-1/2"	Right
70522	3/16"	2-1/4"	4-1/2"	Left
70523	7/32"	2-1/4"	4-1/2"	Left
70524	1/4"	2-1/4"	4-1/2"	Left

High-Speed Steel Straight Shank Center Drills (No. X122D7)



Similar to No. X122D drills, except overall length is 7". Shank is same diameter as drill. For use with countersinks and counterbores.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62421	3/16"	3-1/2"	7"	Right
62422	7/32"	3-1/2"	7"	Right

High-Speed Steel Straight Shank Center Drills (No. X122D8)



Similar to No. X122D drills, except overall length is 8". Shank is same diameter as drill. For use with countersinks and counterbores.

Product Number	Drill & Shank Size	Twist Length	Overall Length	Rotation Direction
62423	3/16"	3-1/2"	8"	Right
62424	7/32"	3-1/2"	8"	Right
62425	1/4"	3-1/2"	8"	Right

Forest City Center Drills, Jobber Length and Taper Point Drills

HIGH-SPEED STEEL STRAIGHT SHANK CENTER DRILLS (NO. X122D)



For use with all types of adjustable counterbores and countersinks or for straight boring jobs. High-speed steel for extra tool life.

Product Number	Drill & Shank Size	Twist Length	Overall Length
62426	3/32"	2-1/4"	6"
62427	1/8"	2-1/4"	6"
62428	5/32"	2-1/4"	6"
62429	11/64"	2-1/4"	6"
62430	3/16"	2-1/4"	6"
62431	7/32"	2-1/4"	6"
62432	1/4"	2-1/4"	6"
62433	9/32"	2-1/4"	6"
62434	5/16"	2-1/4"	6"
62435	3/8"	2-1/4"	6"

HIGH-SPEED STEEL STRAIGHT SHANK CENTER DRILLS (NO. X124D)



For use with countersinks and counterbores.

Product Number	Drill & Shank Size	Twist Length	Overall Length
62450	3/32"	2-1/4"	4-1/2"
62451	1/8"	2-1/4"	4-1/2"
62452	9/64"	2-1/4"	4-1/2"
62453	5/32"	2-1/4"	4-1/2"
62454	11/64"	2-1/4"	4-1/2"
62455	3/16"	2-1/4"	4-1/2"
62456	7/32"	2-1/4"	4-1/2"
62457	1/4"	2-1/4"	4-1/2"
62458	9/32"	2-1/4"	4-1/2"
62459	5/16"	2-1/4"	4-1/2"
62460	3/8"	2-1/4"	4-1/2"

Additional Specifications: All Twist Rotations: Right Hand

HSS STRAIGHT SHANK TAPER POINT LONG LENGTH CENTER DRILLS



Product Number	Diameter	Dec. Equiv.	Length Overall	Length of Twist
62701	7/64"	0.109	4-5/8"	2-3/4"
62702	1/8"	0.125	5-1/8"	2-3/4"
62703	9/64"	0.141	5-3/8"	3"
62704	5/32"	0.156	5-3/8"	3"
62705	11/64"	0.172	5-3/4"	3-3/8"
62706	3/16"	0.187	5-3/4"	3-3/8"
62707	13/64"	0.203	6"	3-5/8"
62708	7/32"	0.219	6"	3-5/8"
62709	1/4 "	0.25	6-1/8"	3-3/4"

HSS STRAIGHT SHANK TAPER POINT JOBBER LENGTH CENTER DRILLS (No. X124T)



Product Number	Diameter	Dec. Equiv.	Length Overall	Length of Twist
62239	7/64"	0.109	2-5/8"	1-1/2"
62240	1/8 "	0.125	2-3/4"	1-5/8"
62241	9/64"	0.141	2-7/8"	1-3/4"
62242	5/32"	0.156	3-1/8"	2"
62243	11/64"	0.172	3-1/4"	2-1/8"
62244	3/16"	0.187	3-1/2"	2-5/16"
62245	13/64"	0.203	3-5/8"	2-7/16"
62246	7/32"	0.219	3-3/4"	2-1/2"
62247	1/4 "	0.25	4"	2-3/4"

Additional Specifications: All Twist Rotations: Right Hand.

GENERAL PURPOSE JOBBERS LENGTH STRAIGHT SHANK TWIST DRILLS (NO. X10)



Product Number	Diameter	Dec. Equiv.	Length Overall	Length of Twist
62498	3/64"	.0469	1-3/4"	3/4"
62499	1/16"	.0625	1-7/8"	7/8"
62500	5/64"	.0781	2"	1"
62501	3/32"	.0938	2-1/4"	1-1/4"
62502	7/64"	.1094	2-5/8"	1-1/2"
62503	1/8"	.1250	2-3/4"	1-5/8"
62504	9/64"	.1406	2-7/8"	1-3/4"
62505	5/32"	.1562	3-1/8"	2"
62506	11/64"	.1719	3-1/4"	2-1/8"
62507	3/16"	.1875	3-1/2"	2-5/16 "
62508	13/64"	.2031	3-5/8"	2-7/16"
62509	7/32"	.2188	3-3/4"	2-1/2"
62510	15/64"	.2344	3-7/8"	2-5/8"
62511	1/4"	.2500	4"	2-3/4"
62512	17/64"	.2656	4-1/8"	2-7/8"
62513	9/32"	.2812	4-1/4"	2-15/16"
62514	19/64"	.2969	4-3/8"	3-1/16"
62515	5/16"	.3125	4-1/2"	3-3/16"
62516	21/64"	.3281	4-5/8"	3-5/16"
62517	11/32"	.3438	4-3/4"	3-7/16"
62518	23/64"	.3594	4-7/8"	3-1/2"
62519	3/8"	.3750	5"	3-5/8"
62521	13/32"	.4062	5-1/4"	3-7/8"
62522	27/64"	.4219	5-3/8"	3-15/16"
62523	7/16"	.4375	5-1/2"	4-1/16"
62526	31/64"	.4844	5-7/8"	4-3/8"
62527	1/2"	.5000	6"	4-1/2"

Forest City Adjustable Countersinks

CARBON-STEEL ADJUSTABLE COUNTERSINKS (No. 125)



Beveled head countersinks for flat-head wood screws. Socket set screw holds countersink firmly in place. Designed for use primarily in portable drills. Use with high speed steel centerdrills.

Note: Centerdrills not included with counterbores and countersinks.

Product Number	Countersink Size	Drill Size
62326	3/8"	3/16"
62327	1/2"	1/8"
62328	1/2"	9/64"
62329	1/2"	5/32"
62330	1/2"	11/64"
62331	1/2"	3/16"
62332	1/2"	7/32"
62333	1/2"	1/4"
62334	5/8"	1/4"
62335	5/8"	5/16"
62336	3/4"	5/16"
62337	3/4"	3/8"
Additional Specifications: All Overall Lengths: 1-1/2"		

CARBIDE-TIPPED ADJUSTABLE COUNTERSINKS (No. 125CT)



Beveled head carbide-tipped countersinks for seating flat-head wood screws. Socket set screw holds countersink firmly in place. Use with high speed steel centerdrills.

Note: Centerdrills not included with counterbores and countersinks.

Product Number	Countersink Size	Drill Size
62338	1/2"	3/16"
62339	1/2"	7/32"
62340	1/2"	1/4"
Additional Specifications: All Overall Lengths: 1-1/2"		

CARBON-STEEL ADJUSTABLE COUNTERSINKS WITH 7/16-14 THREADED SHANKS (No. 121V)



Designed for Root, Bell, and similar boring machines requiring tools with threaded shanks. For seating flat head screws. Use with high speed steel centerdrills.

Note: Centerdrills not included with counterbores and countersinks.

Product Number	Countersink Size	Drill Size
62257	3/8"	Right
62258	1/2"	Right
62259	3/8"	Left
62260	1/2"	Left
Additional Specifications: All Drill Sizes: 3/16" All Twist Lengths: 2-1/2" All Overall Lengths: 4-1/2"		

CARBIDE-TIPPED COUNTERSINKS FOR METRIC DRILLS (No. M125)

For use with M200 and M201 drills. Designed to chamfer holes for easier insertion of hardware or dowels. Fastens to shank with set screw. All dimensions in millimeters.

Product Number	For Drill Size	Rotation Direction
62235	5 to 10	Right
62237	5 to 10	Left



Additional Specifications: All Inside Diameters: 10MM
All Outside Diameters: 20MM All Overall Lengths: 16.5MM

1/2 X 2 INCH CARBON-STEEL ADJUSTABLE COUNTERSINKS (No. 122V)

Designed for seating flat head screws. Double-fluted twist with wide channels for easy chip clearances. Drill is held by split and set screw. Use with high speed steel centerdrills.

Product Number	Countersink Size	Drill Size
62282	3/8"	1/8"
62283	3/8"	5/32"
62284	3/8"	3/16"
62285	7/16"	3/16"
62286	7/16"	7/32"
62287	1/2"	1/8"
62288	1/2"	5/32"
62289	1/2"	3/16"
62290	1/2"	7/32"
62291	1/2"	1/4"



Additional Specifications: All Twist Lengths: 2-1/2"
All Overall Lengths: 4-1/2"

1/2 X 2 INCH CARBIDE-TIPPED ADJUSTABLE COUNTERSINKS (No. 122VCT)



Designed for seating flat head screws. Double-fluted twist with wide channels for easy chip clearances. Drill is held by split shank and set screw. Carbide-tipped for longer life in particle board, fiber board, and plastics. Use with high speed steel centerdrills.

Note: Centerdrills not included with counterbores and countersinks.

Product Number	Countersink Size	Drill Size
62296	3/8"	3/16"
62297	1/2"	3/16"
62298	1/2"	7/32"
62299	1/2"	1/4"
Additional Specifications: All Twist Lengths: 2-1/2" All Overall Lengths: 4-1/2"		

MADE TO ORDER COUNTERSINK (NO. 117)



Designed for applications where adjustable-type cutters are not suitable. Drills and countersinks make screw hole in one operation. Taper head drill lead. 82° beveled countersink.

Forest City Adjustable Counterbores

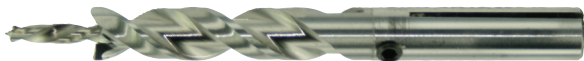
CARBON ADJUSTABLE COUNTERBORES WITH 7/16-14 THREADED SHANKS (No. 121)



Designed for Root, Bell, and similar boring machines requiring tools with threaded shanks. For making flat-bottomed holes. Use with high speed steel centerdrills.
Note: Centerdrills not included with counterbores and countersinks.

Product Number	Counterbore Size	Drill Size	Rotation Direction
62249	3/8"	3/16"	Right
62250	1/2"	3/16"	Right
62251	1/2"	7/32"	Right
62252	1/2"	1/4"	Right
62253	3/8"	3/16"	Left
62254	1/2"	3/16"	Left
62255	1/2"	7/32"	Left
Additional Specifications: All Twist Lengths: 2-1/2" All Overall Lengths: 4-1/2"			

1/2 X 2 INCH CARBON-STEEL ADJUSTABLE COUNTERBORES (No. 122)



Bores smooth, flat-bottomed holes. Double-fluted twist with wide channels for easy chip clearance. Drill is held by split shank and set screw. Use with high speed steel centerdrills.

Note: Centerdrills not included with counterbores and countersinks

Product Number	Counterbore Size	Drill Size
62261	3/8"	1/8"
62262	3/8"	5/32"
62263	3/8"	3/16"
62264	7/16"	3/16"
62265	7/16"	7/32"
62266	1/2"	1/8"
62267	1/2"	5/32"
62268	1/2"	3/16"
62269	1/2"	7/32"
62270	1/2"	1/4"
62271	9/16"	3/16"
62272	9/16"	1/4"
62273	5/8"	3/16"
62274	5/8"	1/4"
62275	5/8"	9/32"
62276	5/8"	5/16"
62277	3/4"	3/16"
62278	3/4"	1/4"
62279	3/4"	9/32"
62280	3/4"	5/16"
62281	3/4"	3/8"
Additional Specifications: All Twist Lengths: 2-1/2" All Overall Lengths: 4-1/2"		

1/2 X 2 INCH CARBIDE-TIPPED ADJUSTABLE COUNTERBORES (No. 122CT)



Bores smooth, flat-bottomed holes. Double-fluted twist with wide channels for easy chip clearance. Drill is held by split shank and set screw. Carbide-tipped for longer life in particle boards, fiber boards, and plastics. Use with high speed steel centerdrills.

Note: Centerdrills not included with counterbores and countersinks.

Product Number	Counterbore Size	Drill Size
62292	3/8"	3/16"
62293	1/2"	3/16"
62294	1/2"	7/32"
62295	1/2"	1/4"
Additional Specifications: All Twist Lengths: 2-1/2" All Overall Lengths: 4-1/2"		

ADJUSTABLE COUNTERBORES No.123)



Extension-lip head bores smooth, flat-bottomed holes. Set screws hold counterbore. Often used in portable drills because of ability to chuck up on smaller primary drill or center drills. Use with high speed steel centerdrills or brad point machine drills.

Note: Centerdrills not included with counterbores and countersinks.

Product Number	Counterbore Size	Drill Size	Overall Length
62301	3/8"	3/16"	1-1/2"
62302	1/2"	3/16"	1-1/2"
62303	1/2"	7/32"	1-1/2"
62304	1/2"	1/4"	1-1/2"
62305	5/8"	1/4"	2"
62306	5/8"	5/16"	2"
62307	3/4"	1/4"	2"
62308	3/4"	5/16"	2"
62309	7/8"	5/16"	2"
62310	7/8"	3/8"	2"
62311	7/8"	7/16"	2"
62312	1"	5/16"	2"
62313	1"	3/8"	2"
62314	1"	1/2"	2"
62315	1-1/8"	1/2"	2"
62316	1-1/4"	1/2"	2"
62317	1-3/8"	1/2"	2"
62318	1-1/2"	1/2"	2"

MADE TO ORDER COUNTERBORE (No. 118)



Made with machine-drill type counterbore and lead for boring flat-bottomed holes for screws, lag screws, stove bolts, and other fasteners that are countersunk and covered with a plug.

Drills have brad point lead, with two outlining spurs both on the lead and the counterbore. Produces smooth holes on both diameters.

Forest City Adjustable Counterbores (Continued . . .)

1/2 X 2 INCH SHANK ADJUSTABLE COUNTERBORES (No. 122EL)



Designed for counterboring table aprons. Double-fluted twist with wide channels for easy chip clearance. Drill held by set screw. Use with Drill No. 62423.

Product Number	Counterbore Size	Drill Size	Twist Length	Overall Length
62300	1/2"	3/16"	5"	7"

CARBON-STEEL MULTI SPUR COUNTER-BORES (No. 120)



An adjustable counterbore cutter designed to fit any drill or bit 1/2" diameter or larger with 1/2" diameter shank. Cutter is held firmly in place with set screw on 1/2" diameter shank. Drill bit not included.

Product Number	Counterbore Size	Bore Size
62345	1-1/8"	1/2"
62346	1-1/4"	1/2"
62347	1-3/8"	1/2"
62348	1-1/2"	1/2"
62349	1-5/8"	1/2"
62350	1-3/4"	1/2"
62351	1-7/8"	1/2"
62352	2"	1/2"
62353	2-1/8"	1/2"
62354	2-1/4"	1/2"
62355	2-1/2"	1/2"

CARBIDE-TIPPED COUNTERBORE WITH HIGH-SPEED STEEL DRILL (No. 135CT)



Designed for face frame boring machine. Used on Ritter and Evans Rotork Machines.

Product Number	Size	Shank Size	Overall Length
135 SP Counterbore with High-Speed Drill			
61356	3/8" x #29	.357	4"
135 CT Counterbore with High-Speed Drill			
62356	3/8" x #29	.357	4"
Note: No. 62357 Center drill included with counterbore.			
Replacement Center Drills		Description	
62357	#29	High-Speed Steel	2-7/8"
62358	#29	Cobalt	2-7/8"

NEW PRODUCTS LIST



1/4" HEX SHANK TOOLS

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BORING BITS FOR DOOR BORING FIXTURES

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DOOR LITE BITS

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EUROPEAN TOOLS 10 MM Shank

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TRADESMEN & CONTRACTOR TOOLS

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SAW BLADES

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Forest City Mortising Chisels and Bits

HOLLOW MORTISING CHISELS (No. 28)



For making **square mortises** in one stroke, and oblong mortises with each succeeding stroke. 4" blade, 5-1/2" overall length. 1/4" and 5/16" sizes have reinforced blade.

Product Number	Diameter	Shank Diameter	Mortising Depth
62602	1/4"	5/8"	1-7/8"
62603	5/16"	5/8"	1-7/8"
62604	3/8"	5/8"	3-1/4"
62605	1/2"	5/8"	3-1/4"
62606	5/8"	3/4"	3-1/4"
62607	3/4"	1-1/8"	3-1/4"
62608	1"	1-1/8"	3-1/4"

Additional Specifications: All Shank Lengths: 1-1/2"
Note: Chisels and Bits are sold separately.

CARBON-STEEL HOLLOW CHISEL BITS (No. 1-28)



For 4" Blade Hollow Chisels. Bits have knife edged spurs and no point.

Product Number	Diameter	Shank Diameter	Twist Length
62609	1/4"	3/16"	3-1/4"
62610	5/16"	1/4"	3-1/4"
62611	3/8"	19/64"	6"
62612	1/2"	19/64"	6"
62613	5/8"	1/2"	6"
62614	3/4"	1/2"	6"
62615	1"	1/2"	6"

Additional Specifications: All Overall Lengths: 9"

SUPER™ WEAR STEEL HOLLOW CHISEL BITS (No. X1-28)

For use with No. 28 and No. 30 Mortising Chisels. Super Wear Steel boosts life substantially on hard wood.

Product Number	Diameter	Shank Diameter	Twist Length
62616	3/4"	1/2"	6"

Additional Specifications: All Overall Lengths: 9"

CARBIDE-TIPPED HOLLOW CHISEL BITS (No. CT1-28)

For use on core and particle board. Use with No. 28 and No. 30 Mortising Chisels.

Product Number	Diameter	Shank Diameter	Twist Length
62617	3/4"	1/2"	6"

Additional Specifications: All Overall Lengths: 9"

DELTA MODEL 14-651 MORTISING CHISEL & BIT SET

Product Number	Diameter	Shank Chisel - Bit		OAL Chisel - Bit	
80101	1/4"	5/8"	3/16"	4-1/4"	7-5/16"
80102	5/16"	5/8"	1/4"	4-1/4"	7-5/16"
80103	3/8"	5/8"	19/64"	4-1/4"	7-5/16"
80104	1/2"	5/8"	19/64"	4-1/4"	7-5/16"

Additional Specifications: All Mortising Depths: 1-7/8"



JET MODEL JBM-5 MORTISING CHISEL & BIT SET

Product Number	Diameter	Shank Chisel - Bit		OAL Chisel - Bit	
80201	1/4"	5/8"	3/16"	4-1/4"	8-1/4"
80202	5/16"	5/8"	1/4"	4-1/4"	8-1/4"
80203	3/8"	5/8"	19/64"	4-1/4"	8-1/4"
80204	1/2"	5/8"	19/64"	4-1/4"	8-1/4"

Additional Specifications: All Mortising Depths: 1-7/8"



HOLLOW MORTISING CHISELS (No. 27)



For making **square mortises** in one stroke, and oblong mortises with each succeeding stroke. 2-3/4" Blade, 4-1/4" overall length. For shallow mortises.

Product Number	Diameter	Shank Diameter	Mortising Depth
62618	1/4"	5/8"	1-7/8"
62619	5/16"	5/8"	1-7/8"
62620	3/8"	5/8"	1-7/8"
62621	1/2"	5/8"	1-7/8"

Additional Specifications: All Shank Lengths: 1-1/2"
Note: Chisels and Bits are sold separately.

CARBON-STEEL HOLLOW CHISEL BITS (No. 1-27)



For 2-3/4" blade hollow chisels. Bits have knife edged spurs and no point.

Product Number	Diameter	Shank Diameter	Twist Length
62622	1/4"	3/16"	1-7/8"
62623	5/16"	1/4"	1-7/8"
62624	3/8"	19/64"	1-7/8"
62625	1/2"	19/64"	1-7/8"

Additional Specifications: All Overall Lengths: 8"

THREADED-SHANK HOLLOW MORTISING CHISELS (No. 30)



Threaded-shank for Wysong & Miles mortisers. Makes square mortises in one stroke, and oblong mortises in succeeding strokes. 4" blade.

Product Number	Diameter	Shank Diameter	Shank Length	Mortising Depth
62626	3/4"x4"	1-3/16"	2"	3-1/4"

Note: Uses No. 1-28, X1-28 and CT1-28 3/4" chisel bit.

Forest City Machine Drills

1/2 X 2 INCH SHANK CARBON-STEEL BRAD POINT SPUR MACHINE DRILLS (No. 200)



Widely used for cross-grain boring and other work requiring smooth, accurate holes. Head, twist, and shank are ground after hardening for accuracy. Two outlining spurs cut in advance of the chip lifter.

Product Number	Diameter	Twist Length	Overall Length
62115	1/8"	3"	5"
62116	5/32"	3"	5"
62117	3/16"	3"	5"
62118	7/32"	3"	5"
62119	1/4"	3"	5"
62120	17/64"	3"	5"
62121	9/32"	3"	5"
62122	5/16"	3"	5"
62123	11/32"	3"	5"
62124	3/8"	3"	5"
62125	25/64"	3"	5"
62126	13/32"	3"	5"
62127	7/16"	3"	5"
62128	15/32"	3"	5"
62129	1/2"	3"	5"
62130	5/8"	3"	5"
62131	3/4"	3"	5"
62132	1/8"	4"	6"
62133	5/32"	4"	6"
62134	3/16"	4"	6"
62135	7/32"	4"	6"
62136	1/4"	4"	6"
62137	17/64"	4"	6"
62138	9/32"	4"	6"
62139	19/64"	4"	6"
62140	5/16"	4"	6"
62141	11/32"	4"	6"
62142	3/8"	4"	6"
62143	25/64"	4"	6"
62144	13/32"	4"	6"
62145	7/16"	4"	6"
62146	29/64"	4"	6"
62147	15/32"	4"	6"
62148	1/2"	4"	6"
62149	17/32"	4"	6"
62150	9/16"	4"	6"
62151	19/32"	4"	6"
62152	5/8"	4"	6"
62153	21/32"	4"	6"
62154	11/16"	4"	6"
62155	3/4"	4"	6"
62156	25/32"	4"	6"
62157	13/16"	4"	6"
62158	7/8"	4"	6"

1/2 X 2 INCH SHANK CARBON-STEEL BRAD POINT SPUR MACHINE DRILLS (No. 200) Cont'd

Product Number	Diameter	Twist Length	Overall Length
62159	15/16"	4"	6"
62160	1"	4"	6"
62161	1-1/16"	4"	6"
62162	1-1/8"	4"	6"
62163	1-1/4"	4"	6"

1/2 X 2 INCH SHANK SUPER WEAR STEEL BRAD POINT SPUR MACHINE DRILLS (No. X200)



Same as No. 200 Drills except made of Super Wear Steel for added drill life in tough applications. Twist is specially ground to give maximum chip clearance.

Product Number	Diameter	Twist Length	Overall Length
62164	3/16"	3"	5"
62165	1/4"	3"	5"
62166	9/32"	3"	5"
62167	5/16"	3"	5"
62168	11/32"	3"	5"
62169	3/8"	3"	5"
62170	7/16"	3"	5"
62171	1/2"	3"	5"
62172	1/4"	4"	6"
62173	9/32"	4"	6"
62174	5/16"	4"	6"
62175	11/32"	4"	6"
62176	3/8"	4"	6"
62177	13/32"	4"	6"
62178	7/16"	4"	6"
62179	1/2"	4"	6"
62180	17/32"	4"	6"
62181	9/16"	4"	6"
62182	5/8"	4"	6"
62183	11/16"	4"	6"
62184	3/4"	4"	6"
62185	13/16"	4"	6"
62186	7/8"	4"	6"
62187	15/16"	4"	6"
62188	1"	4"	6"

CARBIDE TIPPED BRAD POINT SPUR MACHINE DRILLS (200CT) with 1/2" SHANK

For drilling plastics, laminates, chip core, etc.

P/N	Diameter	Twist	OAL
62189	1/4"	3"	5"
62190	5/16"	3"	5"
62191	3/8"	3"	5"
62192	7/16"	3"	5"
62193	1/2"	3"	5"
62194	5/8"	3"	5"
62195	3/4"	3"	5"

P/N	Diameter	Twist	OAL
62196	1/4"	4"	6"
62197	5/16"	4"	6"
62198	3/8"	4"	6"
62199	7/16"	4"	6"
62200	1/2"	4"	6"
62201	5/8"	4"	6"
62202	3/4"	4"	6"
62205	1"	4"	6"

MADE IN THE USA
Toll Free 1-800-343-8944

Forest City Machine Drills

CARBIDE-TIPPED SCREW SHANK DOWEL DRILLS (No. 203CT)



These carbide-tipped drills were developed especially for use in plastics, laminated products, and chip core. Also excellent in fine-grained hardwoods such as maple and pecan.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter	OAL
62103	62109	1/4"	4-1/2"
62104	62110	5/16"	4-1/2"
62105	62111	3/8"	4-1/2"
62106	62112	25/64"	4-1/2"
62107	62113	7/16"	4-1/2"
62108	62114	1/2"	4-1/2"

Additional Specifications: All Shanks: 7/16"-14 All Twist Lengths: 3"

SUPER WEAR™ STEEL SCREW SHANK DOWEL DRILLS (No. X203)



Designed exactly like the No. 203 except made of Super Wear Steel. This steel requires less frequent sharpening to maintain maximum production. The threaded shanks are treated specially for greater reliability.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter	OAL
62031	62036	1/4"	3-1/2"
62032	62037	5/16"	3-1/2"
62033	62038	3/8"	3-1/2"
62034	62039	7/16"	3-1/2"
62035	62040	1/2"	3-1/2"
62041	62056	3/16"	4-1/2"
62006	62024	7/32"	4-1/2"
62042	62057	1/4"	4-1/2"
62043	62058	9/32"	4-1/2"
62044	62059	5/16"	4-1/2"
62045	62060	11/32"	4-1/2"
62046	62061	3/8"	4-1/2"
62047	62062	25/64"	4-1/2"
62048	62063	7/16"	4-1/2"
62049	62064	29/64"	4-1/2"
62050	62065	1/2"	4-1/2"
62051	62066	9/16"	4-1/2"
62052	62067	5/8"	4-1/2"
62053	62068	3/4"	4-1/2"
62054	NA	7/8"	4-1/2"
62055	62069	1"	4-1/2"

Additional Specifications: All Shanks: 7/16"-14 All Twist Lengths: 3"

(Continued . . .)

SUPER WEAR™ STEEL SCREW SHANK DOWEL DRILLS (No. X203B)



Designed primarily for the Bell 24 Double End Miter and Boring Machine. These tools can be used on any other boring machine where "Run-Out" has become a problem. The extended shaft insures rigidity especially on small diameter tools.

P/N Right Rotation	P/N Left Rotation	Cutting Diameter	OAL
62070	62077	3/16"	4-1/2"
62071	62078	1/4"	4-1/2"
62072	62079	5/16"	4-1/2"
62073	62080	3/8"	4-1/2"
62074	62081	25/64"	4-1/2"
62075	62082	7/16"	4-1/2"
62076	62083	1/2"	4-1/2"

Additional Specifications: All Shanks: 7/16"-14 All Twist Lengths: 1-3/4"

SUPER WEAR™ STEEL SCREW SHANK DOWEL DRILLS (No. X203J)



Designed for use in J.S. Richardson Boring Machines, but can also be used in Root, Bell, Greenlee, and other machines using threaded spindles. Short length reduces run-out at tip of bit.

Product Number	Diameter	Rotation Direction
62084	1/8"	Right
62085	3/16"	Right
62087	1/4"	Right
62088	5/16"	Right
62089	3/8"	Right
62090	7/16"	Right
62091	1/2"	Right
62092	1/4"	Left
62093	3/8"	Left
62094	7/16"	Left

Additional Specifications: All Shanks: 7/16"-14 All Twist Lengths: 1-1/2" All Overall Lengths: 2-3/4"

SUPER WEAR™ STEEL SCREW SHANK DOWEL DRILLS (No. X204)



Taper Head drill point accurately ground to insure fast smooth boring. The shanks of all tools are relatively soft to facilitate removal from chuck in event of breakage. Used where exit hole must be clean.

Product Number	Diameter	Rotation Direction
62095	3/8"	Right
62096	7/16"	Right
62097	3/8"	Left
62098	7/16"	Left

Additional Specifications: All Shanks: 7/16"-14 All Twist Lengths: 3" All Overall Lengths: 4-1/2"

Forest City Plug Cutters and Dovetail Bits

DOVETAIL SLOT CUTTERS (No. 819) CUTTER ONLY



4 WING



6 WING

For use on French Dovetail Machines for producing slots for drawer bottoms.
Shanks sold separately.

Product Number	Description	Kerf	Straight Bore
62867	4 wing cutter	3/16"	5/16"
62868	6 wing cutter	3/16"	5/16"
Additional Specifications: All Cutting Diameters: 1-1/4" All Overall Lengths: 3-7/16"			

SHANKS FOR DOVETAIL SLOT CUTTERS (No. 820)



Product Number	Shank Diameter	Overall Length	Threads
62869	3/8"	3-7/16"	5/16"-24
62870	1/2"	3-7/16"	5/16"-24

1/2 X 2 INCH SHANK CARBON-STEEL SPIRAL PLUG CUTTERS (No. 140)

(Designed for Softwood)

This one-piece Plug Cutter is designed to cut cross-grain plugs or end-grain dowels up to 2" in length. Plugs up to 1" thick are easily cleared through the 1-1/8" opening.

Product Number	Plug Size	Cutter Barrels	Overall Length
62871	3/8"	2-1/8"	4-3/8"
62872	1/2"	2-1/8"	4-3/8"
62873	5/8"	2-1/8"	4-3/8"
62874	3/4"	2-1/8"	4-3/8"
62875	1"	2-1/8"	4-3/8"



1/2 X 2 INCH SHANK CARBON-STEEL PLUG CUTTERS (No. 600P)

(Designed for Hardwood)

Designed to cut a true-sized plug under most any conditions. Works more effectively at clearing chips than No. 140 cutters because it has multiple spiral flutes. Completely enclosed cylinder with opening to expel 1" long plugs.

Product Number	Plug Size	Cutter Barrels	Overall Length
62876	3/8"	2"	4-3/8"
62877	1/2"	2"	4-3/8"
62878	5/8"	2"	4-3/8"
62879	3/4"	2"	4-3/8"
62880	7/8"	2"	4-3/8"
62881	1"	2"	4-3/8"
62882	1-1/4"	2"	4-3/8"
62883	1-1/2"	2"	4-3/8"
62884	1-3/4"	2"	4-3/8"
62885	2"	2"	4-3/8"



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DRILL BUSHINGS

DRILL BUSHING (No. 6DB) 1/4-INCH X 1-INCH SHANK



Used principally for small diameter drills to eliminate breakage.
Can also be used as a depth stop when using 1/4" hand drills

SPLIT-DRILL BUSHING (No. 7DB) 1/2-INCH DIA. SHANK, 2-INCH O.A.



Designed for chucks with set screw retention.
Not recommended for drills over 1/4" diameter.

Tradesman and Contractor Tools

Augers for Wood



CARBIDE TIPPED HOLLOW FLUTE WOOD AUGER



A carbide-tipped cutting tip combined with a hardened steel cutting edge allows this auger to bore holes in all types of wood quickly, leaving little or no residue. A truly clean, smooth hole is produced. This tool requires less torque to operate and can be used with electric, air, or gasoline powered drill motors and impact wrenches. The carbide cutter is brazed onto the steel body and the hardened steel cutting edge can be sharpened. The lead screw, shank, and carbide cutter are replaceable allowing this auger to be completely rebuilt.

Product Number	Diameter	Flute Length	OAL
69001	1/2"	9"	12"
69002	1/2"	15"	18"
69003	1/2"	21"	24"
69004	1/2"	33"	36"
69005	1/2"	45"	48"
69006	9/16"	9"	12"
69007	9/16"	15"	18"
69008	9/16"	21"	24"
69009	9/16"	33"	36"
69010	9/16"	45"	48"
69011	5/8"	9"	12"
69012	5/8"	15"	18"
69013	5/8"	21"	24"
69014	5/8"	33"	36"
69015	5/8"	45"	48"
69016	11/16"	9"	12"
69017	11/16"	15"	18"
69018	11/16"	21"	24"
69019	11/16"	33"	36"
69020	11/16"	45"	48"
69021	3/4"	9"	12"
69022	3/4"	15"	18"
69023	3/4"	21"	24"
69024	3/4"	33"	36"
69025	3/4"	45"	48"
69026	13/16"	9"	12"
69027	13/16"	15"	18"
69028	13/16"	21"	24"
69029	13/16"	33"	36"
69030	13/16"	45"	48"
69031	7/8"	9"	12"
69032	7/8"	15"	18"
69033	7/8"	21"	24"
69034	7/8"	33"	36"
69035	7/8"	45"	48"
69036	15/16"	9"	12"
69037	15/16"	15"	18"
69038	15/16"	21"	24"
69039	15/16"	33"	36"
69040	15/16"	45"	48"

Product Number	Diameter	Flute Length	OAL
69041	1"	9"	12"
69042	1"	15"	18"
69043	1"	21"	24"
69044	1"	33"	36"
69045	1"	45"	48"
69046	1-1/16"	9"	12"
69047	1-1/16"	15"	18"
69048	1-1/16"	21"	24"
69049	1-1/16"	33"	36"
69050	1-1/16"	45"	48"
69051	1-1/8"	9"	12"
69052	1-1/8"	15"	18"
69053	1-1/8"	21"	24"
69054	1-1/8"	33"	36"
69055	1-1/8"	45"	48"
69056	1-3/16"	9"	12"
69057	1-3/16"	15"	18"
69058	1-3/16"	21"	24"
69059	1-3/16"	33"	36"
69060	1-3/16"	45"	48"
69061	1-1/4"	9"	12"
69062	1-1/4"	15"	18"
69063	1-1/4"	21"	24"
69064	1-1/4"	33"	36"
69065	1-1/4"	45"	48"
69066	1-3/8"	9"	12"
69067	1-3/8"	15"	18"
69068	1-3/8"	21"	24"
69069	1-3/8"	33"	36"
69070	1-3/8"	45"	48"
69071	1-1/2"	9"	12"
69072	1-1/2"	15"	18"
69073	1-1/2"	21"	24"
69074	1-1/2"	33"	36"
69075	1-1/2"	45"	48"

All listed augers have 7/16" Hex Shanks. 5/8" Shanks are available if requested.



Tradesman and Contractor Tools

Augers for Wood

(Continued . . .)

DOUBLE FLUTED CARBIDE TIPPED WOOD AUGER



The Double Fluted Carbide Tipped Wood Auger's flute design and exclusive carbide tip design allows it to drill faster than steel auger bits. Milled from a solid bar of steel to be tougher and stronger than most conventional auger bits. This lasting, heavy-duty drill bit accepts the high torque load and high RPM's generated by the most powerful impact drills and drill motors such as the Stanley ID-04 "Yellow Jacket", the Racine HIW-716, and the Fairmount H8508. Users note improved hole drilling performance when used with this auger. It works well in heavy-duty electric, pneumatic, and gas powered drills. It is fully reversible and can be completely rebuilt at a fraction of the cost of a new one.

Product Number	Diameter	Flute Length	OAL
69101	9/16"	9"	12"
69102	9/16"	15"	18"
69103	9/16"	21"	24"
69104	11/16"	9"	12"
69105	11/16"	15"	18"
69106	11/16"	21"	24"
69107	11/16"	33"	36"
69108	11/16"	45"	48"
69109	3/4"	9"	12"
69110	3/4"	15"	18"
69111	3/4"	21"	24"
69112	3/4"	33"	36"
69113	3/4"	45"	48"
69114	13/16"	9"	12"
69115	13/16"	15"	18"
69116	13/16"	21"	24"
69117	13/16"	33"	36"
69118	13/16"	45"	48"
69119	15/16"	9"	12"
69120	15/16"	15"	18"
69121	15/16"	21"	24"
69122	15/16"	33"	36"
69123	15/16"	45"	48"
69124	1"	9"	12"
69125	1"	15"	18"
69126	1"	21"	24"
69127	1"	33"	36"
69128	1"	45"	48"
69129	1-1/16"	9"	12"
69130	1-1/16"	15"	18"
69131	1-1/16"	21"	24"
69132	1-1/16"	33"	36"
69133	1-1/16"	45"	48"
69134	1-1/8"	9"	12"
69135	1-1/8"	15"	18"
69136	1-1/8"	21"	24"

Product Number	Diameter	Flute Length	OAL
69137	1-1/8"	33"	36"
69138	1-1/8"	45"	48"
69139	1-3/16"	9"	12"
69140	1-3/16"	15"	18"
69141	1-3/16"	21"	24"
69142	1-3/16"	33"	36"
69143	1-3/16"	45"	48"
69144	1-1/4"	9"	12"
69145	1-1/4"	15"	18"
69146	1-1/4"	21"	24"
69147	1-1/4"	33"	36"
69148	1-1/4"	45"	48"
69149	1-3/8"	9"	12"
69150	1-3/8"	15"	18"
69151	1-3/8"	21"	24"
69152	1-3/8"	33"	36"
69153	1-3/8"	45"	48"
69154	1-1/2"	9"	12"
69155	1-1/2"	15"	18"
69156	1-1/2"	21"	24"
69157	1-1/2"	33"	36"
69158	1-1/2"	45"	48"

All listed augers have 7/16" Hex Shanks. 5/8" Shanks are available if requested.

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Tradesman and Contractor Tools

Bellhanger Bits

BELLHANGER HEAVY DUTY STEEL BITS

The bits are specifically designed for small wire installation applications. Telephone, security alarm, fire alarm, cable, and network installers, electricians and other professionals can use these unique drill bits to drill holes through walls, studs and other obstacles to fish the small wire back through the drilled hole with ease.

Product Number	Diameter	OAL
69401	1/4"	12"
69402	1/4"	18"
69403	1/4"	24"
69404	1/4"	36"
69405	1/4"	48"
69406	5/16"	12"
69407	5/16"	18"
69408	5/16"	24"
69409	5/16"	36"
69410	5/16"	48"
69411	3/8"	12"
69412	3/8"	18"
69413	3/8"	24"
69414	3/8"	36"
69415	3/8"	48"
69416	1/2"	12"
69417	1/2"	18"
69418	1/2"	24"
69419	1/2"	36"
69420	1/2"	48"

All listed bits have 7/16" Hex Shanks.
5/8" shanks are available if requested.



Forest City Double Spur Bits

DOUBLE SPUR BRAD POINT MACHINE BITS (No. 107)

These bits have two outlying spurs, supported by side lips, for cutting smooth holes in soft or hard woods, cross, or end grain. The Brad Point allows fingertip control while boring.

Product Number	Diameter	Shank Diameter	Twist Length	Overall Length
62627	3/8"	1/2"	4"	6-1/4"
62635	3/8"	1/2"	6"	8-1/4"
62636	7/16"	1/2"	6"	8-1/4"
62637	1/2"	1/2"	6"	8-1/4"
62639	5/8"	1/2"	6"	8-1/4"
62640	11/16"	1/2"	6"	8-1/4"
62641	3/4"	1/2"	6"	8-1/4"
62643	7/8"	1/2"	6"	8-1/4"
62645	1"	1/2"	6"	8-1/4"
Custom	1-1/4"	Customer Specifications		
Custom	1-1/2"	Customer Specifications		
Custom	2-1/2"	Customer Specifications		
Custom	2-3/4"	Customer Specifications		
Custom	3"	Customer Specifications		

Additional Specifications: All Shank Lengths: 2-1/4"



DOUBLE SPUR SCREW POINT MACHINE BITS (No. 150)

Same as No. 107 except furnished with medium pitch screw point.

Product Number	Diameter	Shank Diameter	Twist Length	Overall Length
62655	3/8"	1/2"	4"	6-1/4"
62656	7/16"	1/2"	4"	6-1/4"
62657	1/2"	1/2"	4"	6-1/4"
62658	5/8"	1/2"	4"	6-1/4"
62659	3/4"	1/2"	4"	6-1/4"
62660	7/8"	1/2"	4"	6-1/4"
62661	1"	1/2"	4"	6-1/4"
62663	3/8"	1/2"	6"	8-1/4"
62664	7/16"	1/2"	6"	8-1/4"
62665	1/2"	1/2"	6"	8-1/4"
62666	9/16"	1/2"	6"	8-1/4"
62667	5/8"	1/2"	6"	8-1/4"
62668	11/16"	1/2"	6"	8-1/4"
62669	3/4"	1/2"	6"	8-1/4"
62670	13/16"	1/2"	6"	8-1/4"
62671	7/8"	1/2"	6"	8-1/4"
62672	15/16"	1/2"	6"	8-1/4"
62673	1"	1/2"	6"	8-1/4"
Custom	1-1/4"	Customer Specifications		
Custom	1-1/2"	Customer Specifications		
Custom	2-1/2"	Customer Specifications		
Custom	2-3/4"	Customer Specifications		
Custom	3"	Customer Specifications		

Additional Specifications: All Shank Lengths: 2-1/4"



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Tradesman and Contractor Tools

Flex-A-Bits



10 SERIES COMBINATION SCREW POINT FLEX-A-BIT



Flexible and versatile, Forest City Tool's Flex-A-Bits are uniquely designed to drill and fish wire through blind enclosed areas in walls and ceilings. These bits are designed with maximum flexibility and are available in five head styles for easy drilling in a variety of situations and materials. Popular with alarm, cable, phone installers, electricians, and plumbers. This high quality bit comes with a three flat non-slip grip and fish accommodation holes in both the flute and the shank. Flex-A-Bits have a durable powder coat finish. It is recommended for use when drilling through walls.

Product Number	Diameter	Overall Length
1037518	3/8"	18"
1037536	3/8"	36"
1037554	3/8"	54"
1037572	3/8"	72"
1050018	1/2"	18"
1050036	1/2"	36"
1050054	1/2"	54"
1050072	1/2"	72"
1056218	9/16"	18"
1056236	9/16"	36"
1056254	9/16"	54"
1056272	9/16"	72"
1075036	3/4"	36"
1075054	3/4"	54"
1075072	3/4"	72"

11 SERIES SERRATED FLEX-A-BIT



This is a multi-purpose and economical bit. It is the most popular bit sold in the US for use on most construction sites. The bit is both aggressive and versatile. It comes with a fish accommodation hole in both the flute and the shank. This bit also has a three flat non-slip grip. It is highly versatile and good for most jobs. Not recommended for metal or masonry.

Product Number	Diameter	Overall Length
1125018	1/4"	18"
1125036	1/4"	36"
1125054	1/4"	54"
1125072	1/4"	72"
1137518	3/8"	18"
1137536	3/8"	36"
1137554	3/8"	54"
1137572	3/8"	72"
1150018	1/2"	18"
1150036	1/2"	36"
1150054	1/2"	54"
1150072	1/2"	72"
1156218	9/16"	18"
1156236	9/16"	36"
1156254	9/16"	54"
1156272	9/16"	72"

13 SERIES HIGH SPEED FLEX-A-BIT



This bit is handy in a variety of situations. It is the best bit when encountering nails, steel plates, sheet metal, as well as different kinds of wood. This high quality bit comes with a three flat non-slip grip and fish accommodation holes in both the flute and the shank.

Product Number	Diameter	Overall Length
1325018	1/4"	18"
1325036	1/4"	36"
1325054	1/4"	54"
1325072	1/4"	72"
1337518	3/8"	18"
1337536	3/8"	36"
1337554	3/8"	54"
1337572	3/8"	72"
1350018	1/2"	18"
1350036	1/2"	36"
1350054	1/2"	54"
1350072	1/2"	72"

14 SERIES HIGH MASONRY FLEX-A-BIT



This bit is the highest quality masonry bit available. It is the best bit for difficult situations. The bit comes with a three flat non-slip grip and fish accommodation holes in the flute and the shank. The fish accommodation holes make it easy to retrieve from foundations and other masonry materials. This bit works well with concrete, tiles and other masonry products.

Product Number	Diameter	Overall Length
1425018	1/4"	18"
1425036	1/4"	36"
1425054	1/4"	54"
1425072	1/4"	72"
1437518	3/8"	18"
1437536	3/8"	36"
1437554	3/8"	54"
1437572	3/8"	72"
1450018	1/2"	18"
1450036	1/2"	36"
1450054	1/2"	54"
1450072	1/2"	72"



Tradesman and Contractor Tools

Flex-A-Bits (Cont.) & Self Feed Wood Boring Bits



Forest City Tool Stud Buster and Tie Boring Bits

15 SERIES FLEXIBLE EXTENSIONS



Flexible extensions are made of the same heat treated spring steel as our flex bits. Shanks all have the three flat non-slip grip and fish accommodation holes. Extensions can be used with any drill with a 1/4" or 3/16" shank diameter.

Product Number	Length
1518718	18"
1518724	24"
1518736	36"
1518754	54"
1518772	72"
1525018	18"
1525024	24"
1525036	36"
1525054	54"
1525072	72"

STUD BUSTER™ SELF FEEDING AUGER BITS (No. 930 and No. 931) US Patent #544892



Forest City Tool introduces the latest innovation in self-feeding auger bits. The patented Stud Buster adds "feed threads" onto the body that allow the drill to continue to feed into the wood even after the screw point has broken through the backside of the hole. These unique "feed threads" and "open flute" design with twin cutting edges allow the drill to be extremely free cutting with minimal "blowout". The Stud Busters are manufactured in America on precision CNC machinery from high quality American made tool steel. They are ideal tools for electricians and plumbers or any trades that require repetitive holes be drilled through studs, joists or timbers.

Product Number	Diameter	Shank Diameter	Twist Length	Overall Length
9300375	3/8"	1/2"	5"	7-1/2"
9300500	1/2"	1/2"	5"	7-1/2"
9300562	9/16"	1/2"	5"	7-1/2"
9300625	5/8"	1/2"	5"	7-1/2"
9300687	11/16"	1/2"	5"	7-1/2"
9300750	3/4"	1/2"	5"	7-1/2"
9300812	13/16"	1/2"	5"	7-1/2"
9300875	7/8"	1/2"	5"	7-1/2"
9301000	1"	1/2"	5"	7-1/2"
9301125	1-1/8"	1/2"	5"	7-1/2"

Additional Specifications: All Shank Lengths: 2-1/2"

CONTINUED NEXT COLUMN . . .

STUD BUSTER™ SELF FEEDING AUGER BITS (No. 930 and No. 931) US Patent #544892

Product Number	Diameter	Shank Diameter	Twist Length	Overall Length
9310500	1/2"	1/2"	12"	17"
9310562	9/16"	1/2"	12"	17"
9310625	5/8"	1/2"	12"	17"
9310687	11/16"	1/2"	12"	17"
9310750	3/4"	1/2"	12"	17"
9310812	13/16"	1/2"	12"	17"
9310875	7/8"	1/2"	12"	17"
9311000	1"	1/2"	12"	17"
9311125	1-1/8"	1/2"	12"	17"

Additional Specifications: All Shank Lengths: 5"

STEP DRILLS

HSS step drills are CNC ground and spiral fluted for higher performance as compared to straight fluted tools. Drills have a 118° point with 90° step angles and are available in 9 different sizes. Spiral fluted step drills are a favorite of electricians, maintenance personnel, and all tradesmen needing a high quality drill capable of producing multiple size holes with one tool.



9320001



9320002



9320003



9320004



9320005



9320006



9320007



9320008



9320009

Product Number	Size #	Drilling Range	# Steps
9320001	1	3/16" - 1/2"	6
9320002	2	1/8" - 1/2"	13
9320003	3	1/4" - 3/4"	9
9320004	4	3/16" - 7/8"	12
9320005	5	13/32" - 1"	9
9320006	6	7/8" - 1-3/8"	5
9320007	7	3/8" - 1/2"	2
9320008	8	7/8"	1
9320009	9	7/8" - 1-1/8"	2



Tradesman and Contractor Tools (Continued . . .)

TIE BORING BITS (No. 935)



Ideal for drilling landscape timbers and thick salt treated posts. The unique point geometry and open flute design will self-feed without the aid of a screw point and makes an excellent exit hole with minimum "blowout". Tie bits can be provided with 0, 1 or 3 flats on the shank to allow for chucking in a 1/2" or larger drill. Made on precision CNC grinders from high quality American tool steel. These bits are a "must have" for any application that requires a through hole in a thick timber.

Product Number	Diameter	Shank Diameter	Twist Length	Overall Length
9350562**	9/16"	1/2"	9-5/8"	12-1/8"
9350625*	5/8"	1/2"	9-5/8"	12-1/8"
9350687*	11/16"	1/2"	9-5/8"	12-1/8"
9350750*	3/4"	1/2"	9-5/8"	12-1/8"

Specify # of flats by adding "F" for one (1) flat, or "F3" for three (3) flats. No addition to part number for NO FLATS.

Additional Specifications: All Shank Lengths: 2-1/2"

* Single Flute ** Double Flute

TIE BORING BITS (No. 936)



The 936 Series is manufactured the same as the 935 Series. This design and size has proven very successful in drilling fence posts. Tie bits can be provided with 0, 1 or 3 flats on the shank to allow for chucking in a 1/2" or larger drill. All sizes are SINGLE FLUTE.

Product Number	Diameter	Shank Diameter	Twist Length	Overall Length
9360562	9/16"	1/2"	6-3/8"	9-3/8"
9360625	5/8"	1/2"	6-3/8"	9-3/8"
9360687	11/16"	1/2"	6-3/8"	9-3/8"
9360750	3/4"	1/2"	6-3/8"	9-3/8"

Specify # of flats by adding "F" for one (1) flat, or "F3" for three (3) flats. No addition to part number for NO FLATS.

Additional Specifications: All Shank Lengths: 2-1/2"

Forest City Maka Mortise Cutters

Forest City Tool can manufacture both High-Speed Steel and Carbide-Tipped Maka Mortise Cutters to your specifications. These cutters can be furnished straight or offset, for either the large or small Maka Heads.



Maka Mortise Cutters that cut 2" (50mm) or greater depth, we recommend that they have chip lifters for easy chip removal.

Cutting Edge Length



For Small Head

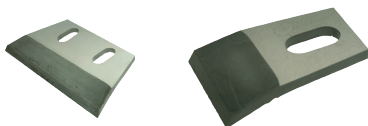
Order Specifications:

(Please Specify)

1. Kerf or Slot Width
2. Cutting Edge Length or Slot Length
3. Overall Length
4. Carbide-Tipped or High-Speed Steel
5. Make or Model Number of Maka Machine
6. Offset cutters - Please specify in inches or millimeters how much these cutters are to be offset. (This is the distance from the center of the cutting edge to the center of the bolt holes.)

Forest City High-Speed Bent Lathe Knives and Equipment

HIGH-SPEED STEEL 1/4-INCH THICK BENT CLOSED SLOT LATHE KNIVES (No. 900C)



Product Number	Length of Cutting Edge	Width	Slot(s)
164091	1"	3"	1"
164092	1-1/4"	3"	1"
164093	1-1/2"	3"	1"
164094	1-3/4"	3"	1"
164095	2"	3"	1"
164096	2-1/2"	3"	1"
164097	3"	3"	1"
164098	3-1/2"	3"	1"
164099	4"	3"	1"
164100	4-1/2"	3"	1"
164101	5"	3"	1"
164102	5"	3"	2"
164103	5-1/2"	3"	2"
164104	6"	3"	2"
164105	6-1/2"	3"	2"
164107	1"	3-1/2"	1"
164108	1-1/4"	3-1/2"	1"
164109	1-1/2"	3-1/2"	1"
164110	1-3/4"	3-1/2"	1"
164111	2"	3-1/2"	1"
164112	2-1/2"	3-1/2"	1"
164113	3"	3-1/2"	1"
164114	3-1/2"	3-1/2"	1"
164115	4"	3-1/2"	1"
164116	4-1/2"	3-1/2"	1"
164117	5"	3-1/2"	1"
164118	5"	3-1/2"	2"
164120	6"	3-1/2"	2"
164121	6-1/2"	3-1/2"	2"
164122	7"	3-1/2"	2"
164123	1"	4"	1"
164124	1-1/4"	4"	1"
164125	1-1/2"	4"	1"
164126	1-3/4"	4"	1"
164127	2"	4"	1"
164128	2-1/2"	4"	1"
164129	3"	4"	1"
164130	3-1/2"	4"	1"
164131	4"	4"	1"
164132	4-1/2"	4"	1"
164133	5"	4"	2"

Additional Specifications: All Thicknesses: 1/4"

HIGH-SPEED STEEL 1/4" THICK STRAIGHT CLOSED SLOT LATHE KNIVES (No. 904C)

Product Number	Length of Cutting Edge	Width	Slot(s)
164140	1"	3"	1"
164141	1-1/4"	3"	1"
164142	1-1/2"	3"	1"
164143	1-3/4"	3"	1"
164144	2"	3"	1"
164145	2-1/2"	3"	1"
164146	3"	3"	1"
164147	3-1/2"	3"	1"
164148	4"	3"	1"
164149	4-1/2"	3"	1"
164150	5"	3"	2"
164151	5-1/2"	3"	2"
164152	6"	3"	2"
164153	1"	3-1/2"	1"
164154	1-1/4"	3-1/2"	1"
164155	1-1/2"	3-1/2"	1"
164156	1-3/4"	3-1/2"	1"
164157	2"	3-1/2"	1"
164158	2-1/2"	3-1/2"	1"
164159	3"	3-1/2"	1"
164160	3-1/2"	3-1/2"	1"
164161	4"	3-1/2"	1"
164162	4-1/2"	3-1/2"	1"
164163	5"	3-1/2"	2"
164164	5-1/2"	3-1/2"	2"
164165	6"	3-1/2"	2"
164166	1"	4"	1"
164167	1-1/4"	4"	1"
164168	1-1/2"	4"	1"
164169	1-3/4"	4"	1"
164170	2"	4"	1"
164171	2-1/2"	4"	1"
164172	3"	4"	1"
164173	3-1/2"	4"	1"
164174	4"	4"	1"
164175	4-1/2"	4"	1"
164176	5"	4"	1"
164177	5"	4"	2"
169790	5"	3"	1"
169792	7"	3"	2"
169793	5"	3-1/2"	1"
169794	6-1/2"	3-1/2"	2"
169796	5-1/2"	4"	2"
169797	6"	4"	2"
169799	7"	4"	2"

Additional Specifications: All Thicknesses: 1/4"

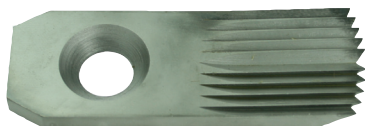
Forest City High-Speed Bent Lathe Knives and Equipment (Continued . . .)

HIGH-SPEED STEEL 1/4-INCH THICK BENT CLOSED SLOT LATHE KNIVES-STRAIGHT CUT (No. 902C)

Product Number	Length of Cutting Edge	Width	Slot(s)
164134	6"	3"	2
164135	6-1/2"	3"	2
164136	7"	3"	2
164137	6"	3-1/2"	2
164139	7"	3-1/2"	2

Additional Specifications: All Thicknesses: 1/4"

HIGH-SPEED STEEL SPUR KNIVES (No. 905)

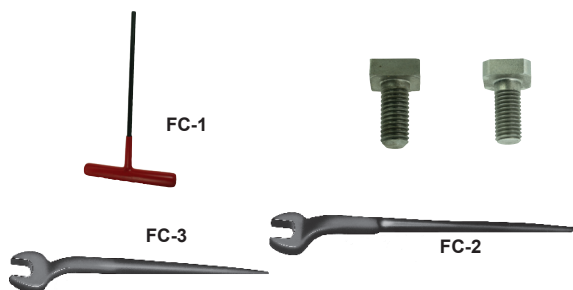


Product Number	Length	Width
64056	1-1/4"	3"
64057	1-1/4"	3-1/2"
64058	1-1/4"	4"
64059	1-1/2"	3-1/2"
64060	1-1/2"	4"

Shipped 4 per pack.

Additional Specifications: All Thicknesses: 1/4"

OPERATING TOOLS AND SUPPLIES



Product Number	Description
64042	Knife Bolt, 1/2" Diameter
64043	Carrier Bolt, 5/8" Diameter
64044	Carrier Bolt Nut
64045	Balancing Washer Thin .038-.040 (90 per lb.)
64046	Balancing Washer Medium .062 (50 per lb.)
64047	Balancing Washer Heavy .100-.105 (25 per lb.)
64048	Set Screw, 1/2" Diameter w/ Brass Point
64052	FC-1 Cylinder Set Screw Wrench 1/4"
64053	FC-2 Carrier Bolt Wrench 1-1/16"
64054	FC-3 Knife Bolt Wrench 7/8"

T-SLOT TYPE SPUR CARRIERS



Product Number	Type	Rot.	Height OAL Across Cyl. Face	Width Across Top of Knife Seat	Width of Base
64036	D-57	Left	2-5/8"	1-5/16"	1-7/16"
64037	E-57	Right	2-5/8"	1-5/16"	1-7/16"
64038	D-58	Left	3-1/4"	1-1/4"	1-7/16"
64039	E-58	Right	3-1/4"	1-1/4"	1-7/16"
64041	E-59	Right	3-3/4"	1-1/2"	1-1/2"

Shipped 2 per pack.

Additional Specifications: All Degree of Angles: 90°

T-SLOT TYPE SEGMENTS



Product Number	Type	Height OAL Across Cyl. Face	Diameter Cutting Circle	Width of Base
64064	S-63	3-15/16"	12-1/2"	1-5/8"
64065	S-64	4-3/16"	13"	1-1/2"

Shipped 2 per pack.

T-SLOT TYPE CYLINDERS (No. 925)

Product Numbe	Length	Dimensions Face-to-Face	No. of Bolt Slots
64068	4"	4-5/8"	6"
64070	6"	4-5/8"	6"
64074	10"	4-5/8"	6"
64076	12"	4-5/8"	6"

Additional Specifications: All Standard Bores: 2-5/8"

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Forest City High-Speed Bent Lathe Knives and Equipment (Continued . . .)

T-SLOT TYPE KNIFE CARRIERS

For use on Mattison, Yates, Diehl, and Defiance Turning Lathes. Also used on the jump arbor on double end tenoners. Our T-Slot Cylinder is precision machined to help insure a close fit with the tang on the carriers. All carriers are manufactured with the utmost care to insure maximum safety. Special steel is used in the knife bolt and carrier bolt to help prevent breakage. T-Slot Segments are recommended when turning long, slender turnings.



Product Number	Type	Rotation	Height Overall Above Cylinder Face	Width Across Top of Knife Seat	Width of Base	Center to Center to Knife Bolts	Degree of Angle	Center to Center to Cylinder Bolts
64018	B-50	Right	2-1/2"	1-1/2"	1-1/4"	-	45	-
64019	A-50	Left	2-1/2"	1-1/2"	1-1/4"	-	45	-
64020	B-51	Right	3"	1-1/2"	1-5/16"	-	45	-
64021	A-51	Left	3"	1-1/2"	1-5/16"	-	45	-
64022	B-52	Right	3-5/8"	1-3/4"	1-5/8"	-	45	-
64023	A-52	Left	3-5/8"	1-3/4"	1-5/8"	-	45	-
64024	B-53	Right	3"	2-5/16"	2"	-	45	-
64025	A-53	Left	3"	2-5/16"	2"	-	45	-
64026	B-54	Right	4-1/8"	1-3/4"	1-3/4"	-	45	-
64027	A-54	Left	4-1/8"	1-3/4"	1-3/4"	-	45	-
64030	B-73	Right	3-5/8"	1-3/4"	1-1/2"	-	55	-
64031	A-73	Left	3-5/8"	1-3/4"	1-1/2"	-	55	-
64032	M-55	Left	3-5/16"	4"	3-1/16"	2-1/4"	35	1-3/4"
64033	W-55	Right	3-5/16"	4"	3-1/16"	2-1/4"	35	1-3/4"
64034	M-59	Left	2-15/16"	3-7/8"	3-11/16"	2-1/4"	35	1-5/8"
64035	W-59	Right	2-15/16"	3-7/8"	3-11/16"	2-1/4"	35	1-5/8"

Shipped 2 per pack. Note: All carriers come complete with 1/2-inch knife bolts and washers, 5/8-inch carrier bolts and nuts

Forest City Insert Tooling

SPIRAL-PRO™ INSERT HEADS

Aluminum Bodies

Product Number	Cutting Diameter	Cutting Length	Bore Size	No. of Wings	No. of Teeth
72024	4"	4"	1-1/4"	4	16
72025	4"	5"	1-1/4"	4	20
72026	4"	6"	1-1/4"	4	24
72027	4"	4"	1-1/4"	6	24
72028	4"	5"	1-1/4"	6	30
72029	4"	6"	1-1/4"	6	36

- Reduced Cutting Pressure
- Reduced Noise Levels
- Reduced Downtime
- Finishing or Roughing



Steel Bodies

Product Number	Cutting Diameter	Cutting Length	Bore Size	No. of Wings	No. of Teeth
72030	4"	4"	4"	4	16
72031	4"	5"	5"	4	20
72032	4"	6"	6"	4	24
72033	4"	4"	4"	6	24
72034	4"	5"	5"	6	30
72035	4"	6"	6"	6	36

Component Parts:

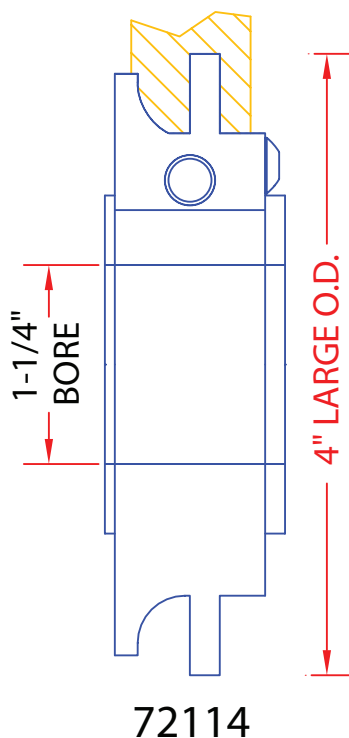
Product Number	Description	Size
72036	Replacement Inserts	15 x 15 x 2.5R
72037	Replacement Screw	M5 x 8 x 6.8 Torx F.H.
Hydro-Loc Bore System Upcharge @ \$32.00 per inch of cutting length. Also available in other diameters and bore sizes.		

Forest City Insert Tooling

(Continued . . .)

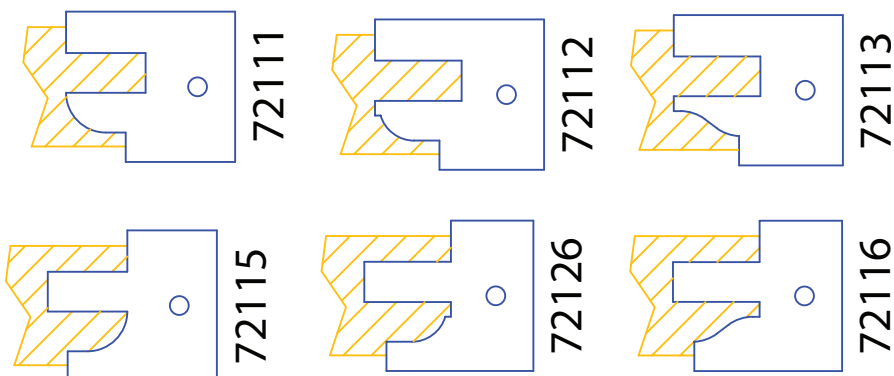
Standard Insert Sets

FACE COMING



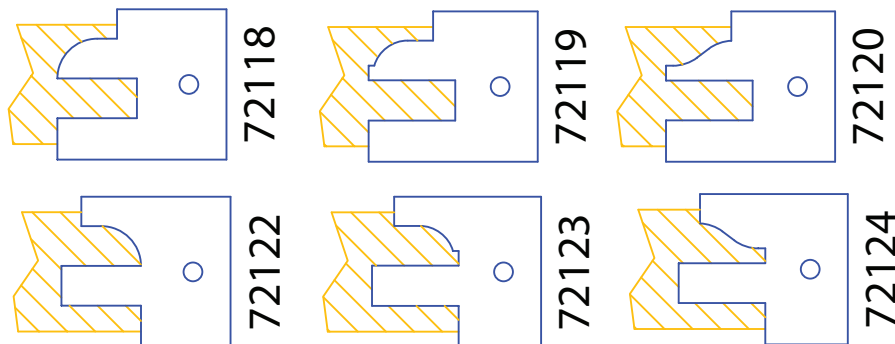
CCW Rotation Panel Face Down (CW Rotation Panel Face Up)

Description	Product Number	# of Wings	Large Diameter	Large Diameter	Bore Size
Insert Cope Body	72110	3	4"	3"	1-1/4"
100 Cope Insert	72111				
101 Cope Insert	72112				
103 Cope Insert	72113				
Insert Rail Body	72114	3	4"	3"	1-1/4"
100 Rail Insert	72115				
101 Rail Insert	72126				
103 Rail Insert	72116				

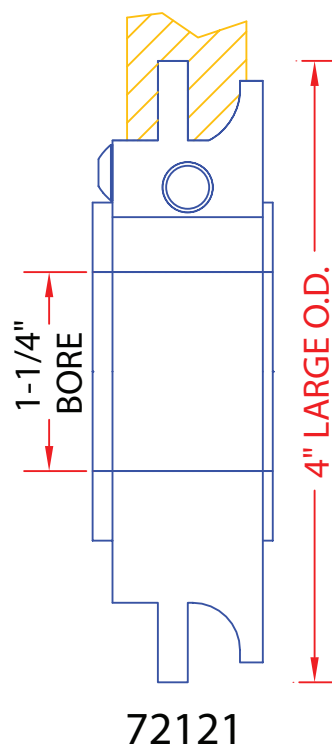


CCW Rotation Panel Face Up (CW Rotation Panel Face Down)

Description	Product Number	# of Wings	Large Diameter	Large Diameter	Bore Size
Insert Cope Body	72117	3	4"	3"	1-1/4"
100 Cope Insert	72118				
101 Cope Insert	72119				
103 Cope Insert	72120				
Insert Rail Body	72121	3	4"	3"	1-1/4"
100 Rail Insert	72122				
101 Rail Insert	72123				
103 Rail Insert	72124				



FACE COMING

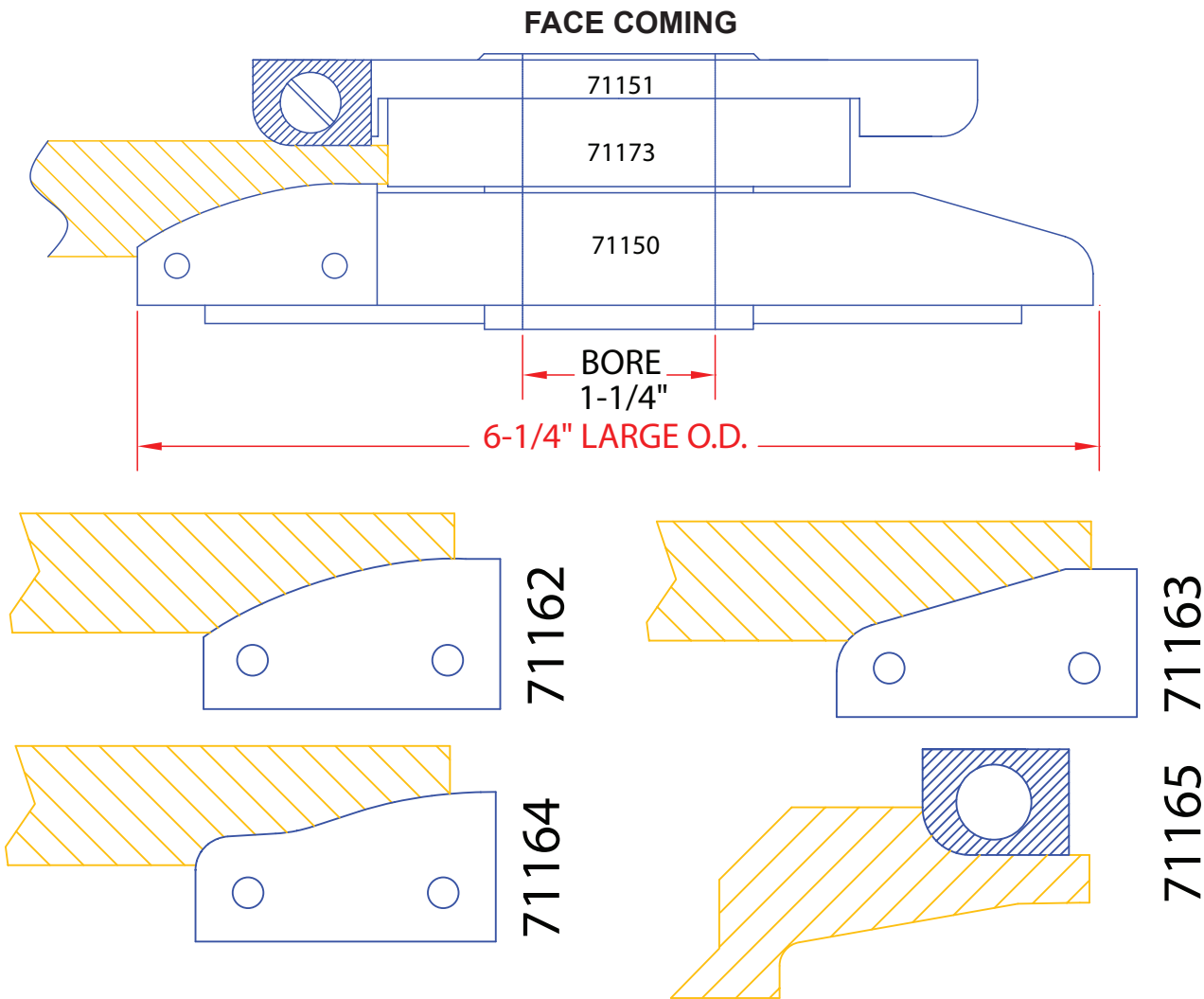


Accessories

Description	Product Number	Bore Size
Bushing - 3/4" T-Type	71166	3/4"
Bushing - 1" T-Type	71167	1"

MADE IN THE USA
Toll Free 1-800-343-8944

Standard Insert Sets



CCW Rotation Panel Face Down (CW Rotation Panel Face Up)

Description	Product Number	# of Wings	Large Diameter	Small Diameter	Bore Size
Raised Panel Body	71150	3	4"	3"	1-1/4"
080 RP Insert	71162				
082 RP Insert	71163				
083 RP Insert	71164				
RP Body (Back Cut)	71151	3	4-3/4"	3"	1-1/4"
098 Back Cut Insert	71165				

CCW Rotation Panel Face Up (CW Rotation Panel Face Down)

Description	Product Number	# of Wings	Large Diameter	Small Diameter	Bore Size
Raised Panel Body	72002	3	6-1/4"	3"	1-1/4"
080 RP Insert	72020				
082 RP Insert	72021				
083 RP Insert	72022				
RP Body (Back Cut)	72003	3	4-3/4"	3"	1-1/4"
098 Back Cut Insert	72023				

Accessories

Description	Product Number	# of Wings	Small Diameter	Bore Size
Bushing - 3/4" T-Type	71166			3/4"
Bushing - 1" T-Type	71167			1"
Rub Bearing (Optional)	71173		3"	1-1/4"
Raise Panel Trim Cutter	72125	3	3"	1-1/4"

Forest City Custom Moulder Heads

Our complete custom capabilities give you solutions, not excuses.

FOREST CITY TOOL doesn't just manufacture custom moulder heads. We solve your problems. We take your special needs and turn them into special tools, using:

- experienced applications engineers who will listen to you and work with you to make sure all the variables are considered.
- advanced microprocessor equipment and computer programming that reduces design time from hours to minutes.
- skilled craftsmen who take pride in the tools they manufacture, bringing the same exacting standards to their work that we apply to our stock items.

Quality construction in every custom moulder head

Heads:

- Dynamically balanced to stringent I.S.O. standards using the latest microprocessor technology.
- All our heads are designed to accept 1/4"-through 10mm-thick, 16-60° or 16-90° corrugated knives.

Knives:

- Can be ground-to-pattern to match exactly the profile you need. Just e-mail or send us your DXF file, drawing, or a wood sample, and we'll match it.

Gibs:

- Matched and precision balanced, as well as radiused for easy chip removal.

Hydro-Loc Cylinders:

- Specifically designed, manufactured, and heat treated to provide extra clamping area that insures cutter head concentricity.
- Drilled to accept industry-standard locking rings as a safety feature.

Moulder heads explained

Some of the basic parts of the moulder head are:



Full service available for all FCT manufactured moulder heads

FOREST CITY TOOL not only manufactures all of the stock and custom items in this catalog. We also service and repair all types of moulder heads. When we receive your moulder head at one of our service centers, we first thoroughly clean it and inspect it for damage or wear. We can also sharpen carbide knives and service the head. For more information about FOREST CITY TOOL Service, contact us at 828-322-4266.

Working to meet your future needs

We keep files on all of our custom orders. So, if you ever need to reproduce a design down the road, we will be ready for you.

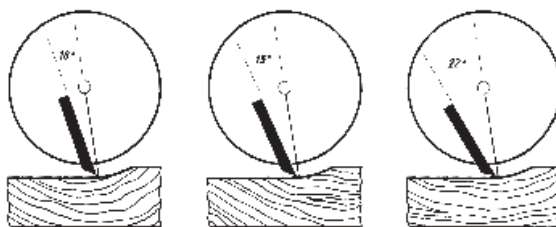
Come to FOREST CITY TOOL with a drawing or a sample. We will take your need and turn it into a solution.

How to order custom moulder heads

When ordering, please specify (where applicable):

- | | |
|----------------------|----------------------|
| (1) head diameter | (6) cutting angle |
| (2) spindle size | (7) type of material |
| (3) type of sleeve | (8) rotation |
| (4) number of knives | (9) cutting length |
| (5) kind of knives | (10) type of gibs. |

Moulder Heads



Hardwood

Combination

Softwood

Different species of wood depending on geographic origin, moisture content etc. may require some adjustment in hook angle, feed rate and knife marks per inch to achieve desired results.

The following charts represent generally recommended hook angles, knife marks per inch and feed rate and finish for different species of wood. They are intended to be used as a guideline.

Cutting Chart

Kind of Wood	Kiln Dried <= 7% Moisture	Wet/Green > 9% Moisture
Ash	15°	10°
Basswood	10°	22°
Beech	10°	15°
Birch	10°	15°
Cedar	10°	15°
Cherry	10°	15°
Chestnut	10°	15°
Cottonwood	10°	15°
Cypress	10°	15°
Fir	15°	15°
Gum	22°	22°
Hemlock	15°	22°
Hickory	10°	15°
Mahogany	10°	15°
Maple	10°	15°
Oak	10°	15°
Pine	22°	22°
Poplar	22°	22°
Redwood	10°	15°
Spruce	22°	22°
Sycamore	10°	10°
Walnut	10°	10°
Elm, Soft	10°	10°

Finish and Rates of Feed

3,600	10	30	60	120	180	240	300	360
3,600	12	25	50	100	150	200	250	300
3,600	14	21	42	85	128	171	214	257
3,600	16	18	37	75	112	150	187	225
3,600	18	16	33	66	100	133	166	200
3,600	20	15	30	60	90	120	150	180
4,800	10	40	80	160	240	320	400	480
4,800	12	33	66	133	200	266	333	400
4,800	14	28	57	144	171	228	285	342
4,800	16	25	50	100	150	200	250	300
4,800	18	22	44	88	133	177	222	266
4,800	20	20	40	80	120	160	200	240
6,000	10	50	100	200	300	400	500	600
6,000	12	41	83	166	250	333	416	500
6,000	14	35	71	142	214	285	357	428
6,000	16	31	62	125	187	254	312	375
6,000	18	27	55	111	166	222	277	333
6,000	20	25	50	100	150	200	250	300
7,200	10	60	120	240	360	480	600	720
7,200	12	50	100	200	300	400	500	600
7,200	14	42	85	171	257	342	428	514
7,200	16	37	75	150	225	300	375	450
7,200	18	33	66	133	200	266	333	400
7,200	20	30	60	120	180	240	300	360
8,000	10	66	133	266	400	533	666	800
8,000	12	55	111	222	333	444	555	666
8,000	14	47	95	190	285	380	476	571
8,000	16	41	83	166	250	333	416	500
8,000	18	37	74	148	222	296	370	444
8,000	20	33	66	133	200	266	333	400

Knife Marks Per Inch

For the following species, keep knife marks per inch within the following parameters.

Kind of Wood	Knife Marks/IN	Kind of Wood	Knife Marks/IN
Ash	11-14	Hemlock	8-12
Basswood	8-12	Hickory	12-16
Beech	12-14	Mahogany	12-16
Birch	12-16	Maple	12-14
Cedar	8-12	Oak	12-14
Cherry	12-14	Pine	8-14
Chestnut	8-12	Poplar	8-14
Cottonwood	8-12	Redwood	8-12
Cypress	8-12	Spruce	8-12
Fir	8-12	Sycamore	10-14
Gum	9-14	Walnut	12-14

To find the number of knife marks per inch: $(RPM \times \text{number of knives}) \div (\text{feet per minute} \times 12)$. Feed rate directly affects the finish quality of the work. If the rate is too slow, knives dull more quickly and burning occurs. For all jointed heads, refer to the appropriate column. For unjointed heads, refer to column 1.

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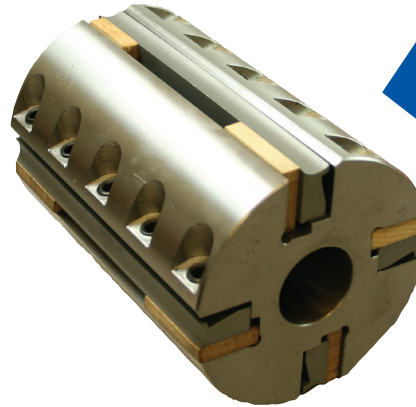
Straight Bore Moulder Heads

All heads are MADE TO ORDER. Use Part Number for quick ordering when cutting length and number of knives match your specifications.

S100 STRAIGHT BORE MOULDER HEAD

Straight Bore Moulder Head 100MM Diameter with 1-1/4" Bore with choice of 10, 15 or 22 Hook or combination of two on the 4 knife head, with Pocket Gibs and Allen Screws.

2 Knives Part Number	3 Knives Part Number	4 Knives Part Number	Cutting Length
67600	67606	67612	50 MM
67601	67607	67613	60 MM
67602	67608	67614	80 MM
67603	67609	67615	100 MM
67604	67610	67616	130 MM
67605	67611	67617	150 MM



**NEW
LOWER
PRICING!**

S122 STRAIGHT BORE MOULDER HEAD

Straight Bore Moulder Head 122 mm Diameter with 1-1/4" or 40MM Bore and choice of 10, 15 or 22 Hook or combination of two, with Pocket Gibs and Allen Screws.

4 Knives Part Number	Cutting Length
67618	50 MM
67619	60 MM
67620	80 MM
67621	100 MM
67622	130 MM
67623	150 MM
67624	180 MM
67625	230 MM

S137 STRAIGHT BORE MOULDER HEAD

Straight Bore Moulder Head 137MM Diameter with 1-3/16" with choice of 10, 15 or 22 Hook or combination of two, with Pocket Gibs and Allen Screws.

4 Knives Part Number	Cutting Length
67626	50 MM
67627	60 MM
67628	80 MM
67629	100 MM
67630	130 MM
67631	150 MM
67632	180 MM
67633	230 MM

Hydro-Loc Moulder Heads

H137 HYDRO-LOC MOULDER HEAD

Hydro-Loc Moulder Head 137MM Diameter with 1-1/2", 40MM or 1-3/16" Bore with choice of 10, 15 or 22 Hook or combination of two, with Pocket Gibs and Allen Screws.

4 Knives Part Number	Cutting Length
67634	60 MM
67635	100 MM
67636	150 MM
67637	180 MM
67638	230 MM

H150 HYDRO-LOC MOULDER HEAD

Hydro-Loc Moulder Head 150MM Diameter with 1-13/16", 2-1/8" or 50MM Bore with choice of 10, 15 or 22 Hook or combination of two, with Pocket Gibs and Allen Screws

4 Knives Part Number	6 Knives Part Number	Cutting Length
67639	67646	60 MM
67640	67647	100 MM
67641	64648	150 MM
67642	67649	180 MM
67643	67650	230 MM
67644	67651	260 MM
67645	67652	310 MM



Forest City Moulder Head Accessories

Accessories

Finding The Right Part

Style No.	Gib Part No.	Gib Screws Part No.	O-Ring Part No.
Straight Bore			
S100	GIB001	GS001	N/A
S122	GIB002	GS002	N/A
S137	GIB002	GS002, GS003	N/A
Hydro-Loc			
H100	GIB001	GS001	OR001
H122	GIB001	GS002	OR002
H137	GIB002	GS002, GS003	OR002
H150	GIB002	GS002, GS003	OR003
H163	GIB002	GS004, GS005	OR003
H195	GIB003	GS004, GS005	OR003
Self-Centering Sleeve Heads			
SCS6.187	GIB002	GS002, GS003	N/A

- All accessory items are manufactured to fit FOREST CITY TOOL stock heads only.
- All heads supplied without knives.

Gib Screws, Heat Treated			
Gib Style	Product No.	Description	Standard Ship Pack
GS001	70058	3/8-16 x 3/4" Allen	6
GS002	70059	1/2-13 x 3/4" Allen	6
GS003	70060	1/2-13 x 1-1/8" Square Head	6
GS004	70061	1/2-13 x 1-1/8" Square Head, Ball Nose	6
GS005	70062	1/2-13 x 3/4" Allen Head, Ball Nose	6
	70768	1/2-13 x 1-3/8" Sq. Head, SSS Dog Point	6
	70769	1/2-13 x 1-1/4" Sq. Head, SSS Dog Point	6
	70770	1/2-13 x 1-1/8" Sq. Head, SSS Dog Point	6

Gibs, Heat Treated			
Gib Style	Product No.	Description	Standard Ship Pack
GIB001	70063	50	1
GIB001	70064	60	1
GIB002	70072	60	1
GIB003	70080	60	1
GIB002	70088	80	1
GIB001	70066	100	1
GIB002	70073	100	1
GIB003	70081	100	1
GIB001	70067	130	1
GIB002	70074	130	1
GIB003	70082	130	1
GIB002	70075	150	1
GIB001	70069	180	1
GIB002	70076	180	1
GIB003	70084	180	1
GIB001	70070	230	1
GIB002	70077	230	1
GIB003	70085	230	1
GIB002	70078	260	1
GIB003	70086	260	1
GIB002	70079	310	1
GIB003	70087	310	1

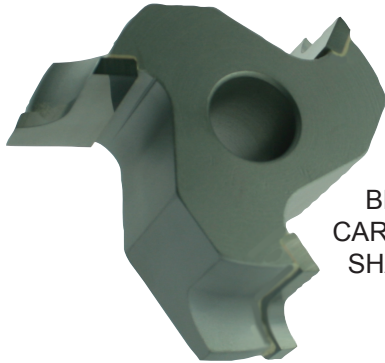
O-Rings High Pressure			
O-Ring Style	Product No.	Description	Standard Ship Pack
OR002	70089	O-Ring	6
OR003	70090	O-Ring	6
Replacement Spanner Nut			
Nut Style	Product No.	Description	Standard Ship Pack
S 1812	70097 R/L for	1-13/16" self-centering sleeve	1
S 2125	70098 R/L for	2-1/8" self-centering sleeve	1
Replacement Hex Nut			
Nut Style	Product No.	Description	Standard Ship Pack
H 1812	70099 R/L for	1-13/16" self-centering sleeve	1
H 2125	70100 R/L for	2-1/8" self-centering sleeve	1
Spanner Wrench			
Wrench Style	Product No.	Description	Standard Ship Pack
SW 1812	70101 for	1-13/16" self-centering sleeve	1
SW 2125	70102 for	2-1/8" self-centering sleeve	1
Hex Wrench			
Wrench Style	Product No.	Description	Standard Ship Pack
HW 1812	70103 for	1-13/16" self-centering sleeve	1
HW 2125	70104 for	2-1/8" self-centering sleeve	1
Allen Wrench			
Wrench Style	Product No.	Description	Standard Ship Pack
A 375	70105 for	3/8" gib screw	1
A 500	70106 for	1/2" gib screw	1
T-Handle Wrench			
Wrench Style	Product No.	Description	Standard Ship Pack
T 375	70107 for	3/8" square head screw	1
Replacement Self-Centering Sleeves			
Sleeve Style	Product No.	Description	Standard Ship Pack
SC 21812	70108 R/L for	1-13/16" bore x 60mm wide	1
SC 41812	70109 R/L for	1-13/16" bore x 100mm wide	1
SC 61812	70110 R/L for	1-13/16" bore x 150mm wide	1
SC 22125	70111 R/L for	2-1/8" bore x 60mm wide	1
SC 42125	70112 R/L for	2-1/8" bore x 100mm wide	1
SC 62125	70113 R/L for	2-1/8" bore x 150mm wide	1
EZ Access Locking Rings			
Ring Style	Product No.	Description	Standard Ship Pack
LR1250	70091	1-1/4" bore	1
LR1500	70092	1-1/2" bore	1
LR0040	70093	40mm bore	1
LR1812	70094	1-13/16" bore	1
LR0050	70095	50mm bore	1
LR2125	70096	2-1/8" bore	1
Accessories			
Style	Product No.	Description	Standard Ship Pack
GF 600	70115	High pressure grease fittings	6
G 1000	70114	High pressure grease gun	1

Forest City Custom Cutter Heads

Our complete custom capabilities give you solutions, not excuses.

FOREST CITY TOOL does not just manufacture custom cutter heads, we solve your problems. We take your special needs and turn them into special tools, using:

- experienced applications engineers who will listen to you and work with you to make sure all the variables are considered.
- advanced microprocessor equipment and computer programming that reduces design time from hours to minutes.
- skilled craftsmen who take pride in the tools they manufacture, bringing the same exacting standards to their work that we apply to our stock items.



BRAZED ON
CARBIDE TIPPED
SHAPER HEAD

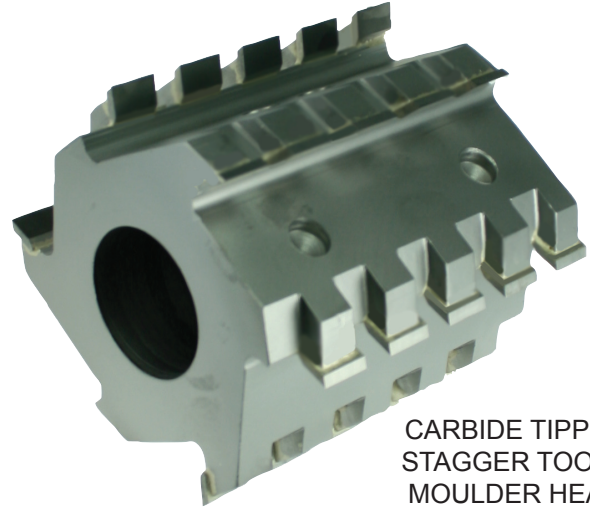
Full service available for all Forest City Tool and other brand cutter heads.

FOREST CITY TOOL services and repairs most types and brands of cutter heads. When we receive your tools, we first thoroughly clean and inspect them for damage or wear. For more information about FOREST CITY TOOL service, contact us at 828-322-4266.

Working to meet your future needs.

We keep files on all of our custom tool orders, too. So, if you ever need to reproduce a design down the road, we will be ready to assist you.

Come to FOREST CITY TOOL with a drawing or a sample. we can take your need and turn it into a solution.



CARBIDE TIPPED
STAGGER TOOTH
MOULDER HEAD

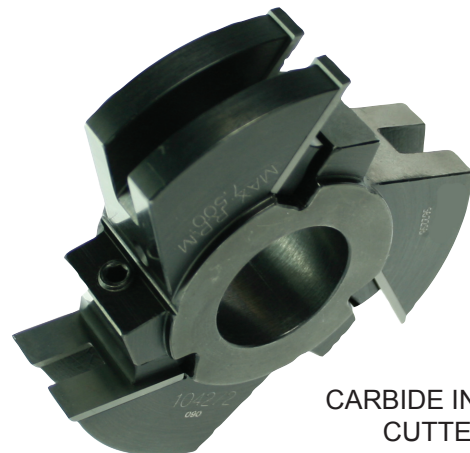
Working to meet your future needs.

When ordering, please specify (where applicable):

(1) Diameter	(4) Cutting Angle
(2) Arbor Size	(5) Type of Material
(3) Number of Knives Wings or Teeth	(6) Cutting Length, or Width
	(7) Rotation



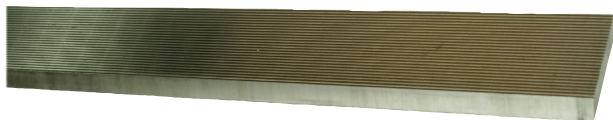
SPIRAL CARBIDE
TIPPED "CORN
COB" CUTTER



CARBIDE INSERT
CUTTER

Moulder Steel

M2 60° CORRUGATED BACK MOULDER STEEL—25" BAR LENGTH



Product Number	Thickness	Width
69774	1/4"	1-1/4"
69775	1/4"	1-1/2"
69776	1/4"	1-3/4"
69777	1/4"	2"
69778	1/4"	2-1/4"
69779	1/4"	2-1/2"
69780	1/4"	2-3/4"
69781	5/16"	1-1/4"
69782	5/16"	1-1/2"
69783	5/16"	1-3/4"
69784	5/16"	2"
69785	5/16"	2-1/4"
69786	5/16"	2-1/2"
69787	5/16"	2-3/4"
69788	5/16"	3"
69789	5/16"	3-1/4"
69908	5/16"	3-1/2"

FILLER STOCK - 60° CORRUGATIONS - SQUARE EDGED - 25" BAR LENGTH

Product Number	Thickness	Width
69909	1/4"	1"
69910	5/16"	1"

PLANER AND MOULDER KNIVES THIN KNIFE STOCK BARS



Product Number	Thickness	Width	Overall Length
66470	1/8"	5/8"	25"
66471	1/8"	3/4"	6"
66472	1/8"	3/4"	25"
66473	1/8"	1"	25"
66474	1/8"	1-1/8"	25"
66475	1/8"	1-1/4"	25"
66476	1/8"	1-3/8"	25"
66477	1/8"	1-1/2"	25"
66479	1/8"	2"	25"
66480	1/8"	2-1/4"	25"
66481	1/8"	2-1/2"	25"
66482	5/32"	1"	31"
66483	5/32"	1-1/8"	31"
66484	5/32"	1-1/4"	31"
66485	5/32"	1-3/8"	31"
66486	5/32"	1-1/2"	31"
66487	5/32"	1-3/4"	31"
66488	5/32"	2"	31"
66489	5/32"	2-1/4"	31"
66490	5/32"	2-1/2"	31"

Note: When requesting a bar of steel be cut to a certain length, use part number 70680 and specify the length needed. There is a charge of \$4.00 net per cut. The remaining portion of the bar will be sent to you unless otherwise requested.

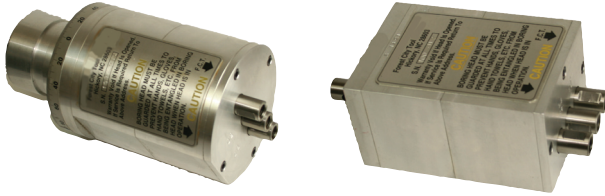
VISIT OUR WEBSITE

<http://forestcitytool.biz>

Custom Boring Heads

BORING HEADS

Forest City boring heads are precision manufactured to insure the utmost in boring accuracy. They feature heavy-duty, 5/8" diameter heat-treated and ground spindles that are internally threaded to accommodate standard screw shank drills. High-precision roller bearings and ball thrust bearings are used throughout for accuracy and durability. The heat dissipating aluminum housing is completely sealed which eliminates greasing during normal operation.



Rectangular Boring Heads

Special rectangular boring heads are available using standard spindles and bearings. Center spacing of 3/4" and larger is possible. These heads require our standard horizontal or vertical mounting fixtures.

To order:

1. Send a dimensioned drawing showing hole layout.
2. Show desired drive spindle location.
3. Specify type of mounting fixture required.
4. Specify right hand or left hand drive rotation.

Round Boring Heads

Special round boring heads are available using standard spindles and bearings. The fixed head diameter on these units limits the number of spindles as well as the center spacing. These heads are furnished with either the Bell horizontal or Bell/Pade mounting fixture.

To order:

1. Send a dimensioned drawing showing hole layout.
2. Specify either Bell or Bell/Pade machine.
3. Specify right hand or left hand drive rotation.

Heads for Foreign Machines

Special boring heads are available for Morbidelli, Nottmeyer, Weeke, Mayer, Zukermann, Alberti, and numerous other machines. These heads require special made spindles and housings since overall length and mounting fixtures vary with different models. A variety of chucks are available for these units.

To order:

1. Send a dimensioned drawing showing hole layout.
2. Specify machine manufacturer.
3. Specify right hand or left hand drive rotation.
4. Send a detailed drawing showing overall dimensions of an existing head with mounting features detailed or send a sample head.

Boring Chucks

BORING CHUCKS (NO. 5)

Furnished with 7/16"-14 threaded shank to accept straight shank drills.

Product Number	Drill Size	Outside Diameter	Overall Length	Rotation Direction
62473	1/8"	5/8"	1-3/4"	Right
62474	5/32"	5/8"	1-3/4"	Right
62475	3/16"	5/8"	1-3/4"	Right
62476	7/32"	5/8"	1-3/4"	Right
62477	1/4"	5/8"	1-3/4"	Right
62478	9/32"	5/8"	1-3/4"	Right
62479	5/16"	5/8"	1-3/4"	Right
62480	3/8"	5/8"	1-3/4"	Right
62481	7/16"	1"	2-1/2"	Right
62482	1/2"	1"	2-1/2"	Right
62483	10mm	5/8"	1-3/4"	Right
62484	1/8"	5/8"	1-3/4"	Left
62485	5/32"	5/8"	1-3/4"	Left
62486	3/16"	5/8"	1-3/4"	Left
62487	7/32"	5/8"	1-3/4"	Left
62488	1/4"	5/8"	1-3/4"	Left
62489	9/32"	5/8"	1-3/4"	Left
62490	5/16"	5/8"	1-3/4"	Left
62491	3/8"	5/8"	1-3/4"	Left
62492	7/16"	1"	2-1/2"	Left
62493	1/2"	1"	2-1/2"	Left
62494	10mm	5/8"	1-3/4"	Left



Forest City Router Bits

PANEL PILOT BIT - PLUNGE POINT



Plunge Point Panel Pilot bits are ground from through hardened high speed steel. The drill point makes the bit self-plunging while the bearing surface allows the bit to rout out openings following a template on the underside of the work. Panel Pilot bits are widely used in the RV, mobile home and construction industries. Imported.

Product Number	Diameter	Cutting Length	OAL
62897	1/4"	Straight - 3/4"	2-1/2"
62898	3/8"	Straight - 3/4"	2-5/8"
62899	1/2"	Straight - 1"	3-1/2"
62900	1/4"	Spiral - 5/8"	2-3/4"
62901	3/8"	Spiral - 3/4"	3-1/8"
62902	1/2"	Spiral - 1"	3-1/2"

DOOR-LITE BIT



Patent Pending Design. High Speed Steel TiAlN Coated UP/DOWN Flute produces clean cuts on top & bottom of workpiece. Used for cutting out window openings in metal clad doors.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter	OAL
HC 5250	1/2"	2-1/2"	1/2"	5-1/2"
HCF 5250	1/2"	2-1/2"	1/2"	5-1/2"

NOTE: "F" in HCF indicates flat on shank.

Forest City Router Bits

(Continued . . .)

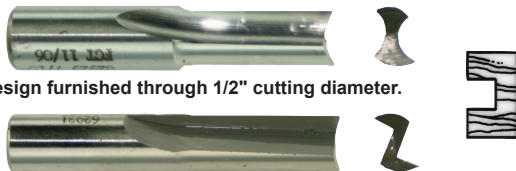
HIGH-SPEED STEEL STRAIGHT SINGLE-FLUTE ROUTER BITS (No. X402)



These "O" flute bits have high hook angle for free cutting. All are specially heat-treated to hold their precision ground cutting edge. All dimensions in inches.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter	Shank Length
62903	1/16"	3/8"	1/4"	1-1/4"
62904	3/32"	3/8"	1/4"	1-1/4"
62905	1/8"	1/2"	1/4"	1-1/4"
62906	5/32"	1/2"	1/4"	1-1/4"
62907	3/16"	5/8"	1/4"	1-1/4"
62908	3/16"	3/4"	1/4"	1-1/4"
62909	7/32"	3/4"	1/4"	1-1/4"
62910	1/4"	5/8"	1/4"	1-1/4"
62911	1/4"	3/4"	1/4"	1-1/4"
62912	1/4"	1"	1/4"	1-1/4"
62913	9/32"	1"	1/4"	1-1/4"
62914	5/16"	1"	1/4"	1-1/4"
62915	5/16"	1"	5/16"	1-1/2"
62916	3/8"	1"	3/8"	1-1/2"
62917	1/2"	1-1/4"	1/2"	1-1/2"

HIGH-SPEED STEEL STRAIGHT DOUBLE-FLUTE ROUTER BITS (No. X400)



"O" flute design furnished through 1/2" cutting diameter.

"Z" flute design furnished on sizes over 1/2" cutting diameter. Recommended for cutting medium and hard woods where a smooth finish is important.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter	Shank Length
62918	3/16"	5/8"	1/4"	1-1/4"
62919	3/16"	3/4"	1/4"	1-1/4"
62920	7/32"	3/4"	1/4"	1-1/4"
62921	1/4"	1/2"	1/4"	1-1/4"
62922	1/4"	3/4"	1/4"	1-1/4"
62923	1/4"	1"	1/4"	1-1/4"
62924	5/16"	1"	5/16"	1-1/4"
62925	3/8"	1"	3/8"	1-1/2"
62926	1/4"	1"	1/2"	1-1/2"
62927	5/16"	1"	1/2"	1-1/2"
62928	3/8"	1"	1/2"	1-1/2"
62929	7/16"	1"	1/2"	1-1/2"
62930	1/2"	1"	1/2"	1-1/2"
62931	1/2"	1-1/4"	1/2"	1-1/2"
62932	9/16"	1-1/4"	1/2"	1-1/2"
62933	5/8"	1-1/4"	1/2"	1-1/2"

HIGH-SPEED STEEL STRAIGHT DOUBLE-FLUTE ROUTER BITS (No. X400) (Continued)

Product Number	Cutting Diameter	Cutting Length	Shank Diameter	Shank Length
62934	3/4"	1-1/2"	1/2"	1-1/2"
62935	13/16"	1-1/2"	1/2"	1-1/2"
62936	7/8"	1-1/2"	1/2"	1-1/2"
62937	1"	1-1/2"	1/2"	1-1/2"

HIGH SPEED FINISHED GROUND ROUTER BLANKS (No. X411)



Product Number	Cutting Diameter	Cutting Length	Shank Diameter
63021	3/4"	1-1/2"	1/2"
63022	1"	1-1/2"	1/2"
63023	1-1/4"	1-1/2"	1/2"
63024	1-1/2"	1-1/2"	1/2"
63025	1-3/4"	1-1/2"	1/2"
63026	2"	1-1/2"	1/2"
63027	2-1/4"	1-1/2"	1/2"
63028	2-1/2"	1-1/2"	1/2"
70519	2-3/4"	1-1/2"	1/2"
70520	3"	1-1/2"	1/2"

Additional Specifications: All Overall Lengths: 3"

HIGH-SPEED STEEL MORTISING ROUTER BITS (No. X406)



For use on oscillating mortising machines not requiring 1/2" shank. Also for use on Louver Groover machines.

Product Number	Cutting Diameter	Shank Diameter	Shank Length	Flute Length
63004	3/16"	3/16"	1"	1"
63005	1/4"	1/4"	1"	1"

Additional Specifications: All Overall Lengths: 2"

CARBON STEEL MORTISING ROUTER BITS (NO. 407)



For use on Rye oscillating mortising machines.

Product Number	Cutting Diameter	Shank Diameter	Shank Length	Flute Length
63006	1/4"	1/2"	1/2"	2-1/4"
63007	5/16"	1/2"	1/2"	2-1/4"
63008	3/8"	1/2"	1/2"	2-1/4"
63009	1/2"	1/2"	1/2"	2-1/4"

Additional Specifications: All Overall Lengths: 4-1/2"

Forest City Router Bits (Continued . . .)

HIGH-SPEED STEEL SINGLE-EDGE SPIRAL-FLUTE ROUTER BITS (No. X402S)



UPCUT-SPIRAL
For slotting and mortising. Pulls chips up and out of the work. Reduces vibration.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter
62939	1/8"	3/8"	1/4"
62940	5/32"	5/8"	1/4"
62941	3/16"	5/8"	1/4"
62942	7/32"	7/8"	1/4"
62943	1/4"	5/8"	1/4"
62944	1/4"	3/4"	1/4"
62945	1/4"	1"	1/4"
62946	5/16"	1"	5/16"
62947	5/16"	1"	3/8"
62948	3/8"	1"	3/8"
62949	1/4"	3/4"	1/2"
62951	5/16"	1"	1/2"
62952	3/8"	1"	1/2"
62955	1/2"	1-1/2"	1/2"

Additional Specifications: All Shank Lengths: 2"

HIGH-SPEED STEEL DOUBLE-EDGE SPIRAL-FLUTE ROUTER BITS (No. X400S)



UPCUT-SPIRAL
For slotting and mortising. Pulls chips up and out of the work. Reduces vibration.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter
62971	1/8"	3/8"	1/4"
62972	3/16"	5/8"	1/4"
62973	7/32"	7/8"	1/4"
62974	1/4"	5/8"	1/4"
62975	1/4"	3/4"	1/4"
62976	1/4"	1"	1/4"
62977	5/16"	3/4"	5/16"
62978	5/16"	1"	5/16"
62979	5/16"	3/4"	3/8"
62980	3/8"	1"	3/8"
62981	1/4"	3/4"	1/2"
62982	5/16"	3/4"	1/2"
62983	3/8"	1"	1/2"
62984	3/8"	1-1/4"	1/2"
62985	1/2"	1-1/4"	1/2"
62986	1/2"	1-1/2"	1/2"
62987	3/4"	1-1/4"	1/2"

Additional Specifications: All Shank Lengths: 2"

HIGH-SPEED STEEL SINGLE-EDGE SPIRAL-FLUTE ROUTER BITS (No. X402S)



DOWN CUT-SPIRAL
For cutting aluminum sheet, wall panels, plywood, chip board, insulation sheeting, plastics, and other synthetic materials. Reduces chipping and tear-out on veneers and laminated surfaces. The downcut spiral forces the material down toward the work table.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter
62956	1/8"	3/8"	1/4"
62957	5/32"	5/8"	1/4"
62960	1/4"	3/4"	1/4"
62961	1/4"	1"	1/4"
62962	5/16"	1"	5/16"
62963	3/8"	1"	3/8"
62964	1/4"	3/4"	1/2"
62966	5/16"	1"	1/2"
62967	3/8"	1"	1/2"
62968	3/8"	1-1/4"	1/2"
62969	1/2"	1-1/4"	1/2"

Additional Specifications: All Shank Lengths: 2"

HIGH-SPEED STEEL DOUBLE-EDGE SPIRAL-FLUTE ROUTER BITS (No. X400S)



DOWN CUT-SPIRAL
Pushes chips down and away from material. Usually used with cutting through material where top surface is finished surface.

Product Number	Cutting Diameter	Cutting Length	Shank Diameter
62988	1/8"	3/8"	1/4"
62989	3/16"	5/8"	1/4"
62990	1/4"	5/8"	1/4"
62991	1/4"	3/4"	1/4"
62992	1/4"	1"	1/4"
62994	5/16"	1"	5/16"
62995	3/8"	1"	3/8"
62996	1/4"	3/4"	1/2"
62997	5/16"	3/4"	1/2"
62998	5/16"	1"	1/2"
62999	3/8"	1"	1/2"
63000	3/8"	1-1/4"	1/2"
63001	1/2"	1-1/4"	1/2"
63002	1/2"	1-1/2"	1/2"
63003	3/4"	1-1/4"	1/2"

Additional Specifications: All Shank Lengths: 2"

Pod Bits and Roughers

1/4-INCH SHANK POD BITS (No. X425)



For the multiple spindle carving machine. Manufactured from a special grade high-speed steel. Shanks are tempered for ease of adjustment. Available in round bottom or square bottom.

Product Number	Twist	Size
63682	Right	1/16"
63683	Right	1/8"
63684	Right	3/16"
63685	Right	1/4"
63686	Right	5/16"
63687	Right	3/8"
63688	Right	1/2"
63689	Left	1/16"
63690	Left	1/8"
63691	Left	3/16"
63692	Left	1/4"
63693	Left	5/16"
63694	Left	3/8"
63695	Left	1/2"

11-MILLIMETER SHANK POD BITS (No. X426)



For the multiple spindle carving machine. Manufactured from a special grade high-speed steel. Shanks are tempered for ease of adjustment. Available in round bottom or square bottom.

Product Number	Twist	Size
63696	Right	1/16"
63697	Right	1/8"
63699	Right	1/4"
63700	Right	5/16"
63701	Right	3/8"
63702	Right	1/2"
63703	Left	1/16"
63704	Left	1/8"
63706	Left	1/4"
63707	Left	5/16"
63708	Left	3/8"
63709	Left	1/2"

Flat Face Carving Bits (No. X450)



Made of Super Wear Steel for added bit life in tough applications.

Product Number	Twist	Size
63676	Right	1/2"
63678	Right	3/4"
63679	Left	1/2"
63681	Left	3/4"

1/4-INCH SHANK CARVING ROUGHERS (No. X421)



These Super Wear Roughers are designed to give maximum life and ease of cutting stock to rough size on a multiple spindle carving machine.

Product Number	Twist	Size
63710	Right	1/2"
63711	Right	5/8"
63712	Right	3/4"
63713	Right	1"
63714	Left	1/2"
63715	Left	5/8"
63716	Left	3/4"
63717	Left	1"

11-MILLIMETER SHANK CARVING ROUGHERS (No. X422)



These Super Wear Roughers were especially designed through the combined efforts of Drexel Heritage Furnishings' Carving Department and Forest City Tool engineers. All reports are that they are far superior to anything on the market today.

Product Number	Twist	Size
63718	Right	5/8"
63719	Right	3/4"
63720	Left	5/8"
63721	Left	3/4"

High-Speed Steel Cup Cutters



High Speed Steel Cup Cutters for use on copy lathe machines such as Bacci, LA Scolpitrice, and Zuckerman.

Product Number	Diameter	Specifications
64540	35 MM	8mm thread
64541	38 MM	10.5 mm straight bore

Forest City Hydraulic Tool Holders



INCREASE TOOL LIFE IN CNC ROUTERS AND CNC ROBOTS BY UP TO 100%

CHANGE ROUTER BITS AND ENDMILLS IN A FRACTION OF THE TIME VS. COLLET CHUCKS

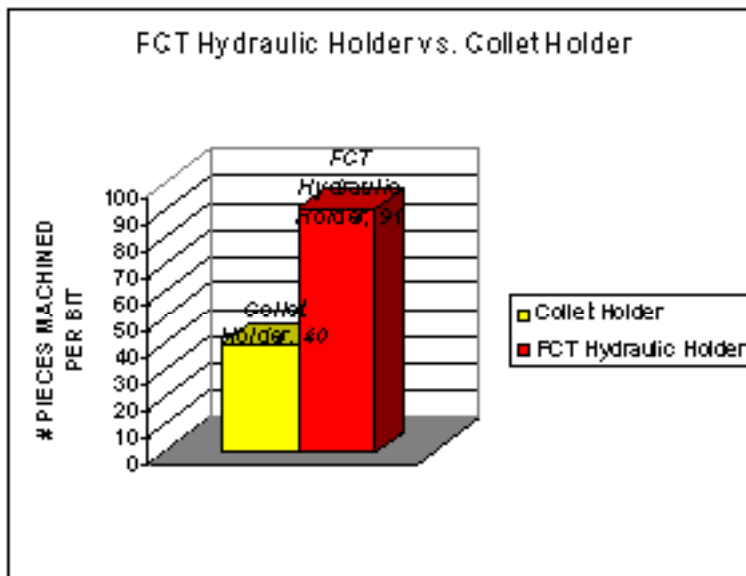
INCREASE SPINDLE BEARING LIFE

MAKE CLEANER CUTS IN FIBERGLASS, PLASTIC AND ALUMINUM WITH LESS CHATTER

INCREASE PRODUCTION WITH FASTER SPEEDS AND FEEDS

DECREASED NOISE LEVELS DUE TO MINIMAL RUNOUT AND HYDRAULIC DAMPING

The graph below presents actual data gathered at a major marine manufacturer. Testing was performed using a Forest City Tool 1/2" solid carbide compression router bit first being run in a standard ER32 collet chuck and then in a Forest City Tool precision hydraulic tool holder. The machine was a 2005 model Fanuc multi-axis robot cutting fiberglass dashes and other small parts. Tool life increased from 40 parts per bit to 91 parts per bit. An amazing 127% increase in tool life by just changing the tool holder.



Hydraulic Tool Holders

Product Number	Description
20029815	HSK-F63 20mm
20028913	ISO-30 25mm
0204936	SK-30 20mm

20mm Intermediate Sleeves

Product Number	Description
0204589	1/8"
0204590	1/4"
0204591	5/16"
0204592	3/8"
0204594	1/2"

Saw Blades

Forest City Tool, Inc is proud to introduce you to a new line of SAW BLADES that meet our standard for industrial quality, durability and performance. The blades are from Original Product Manufacturing Corporation, a Japanese Manufacturer. The saws have specific characteristics that set them apart from other saw blade manufacturers. Their tooth design, high standards of production and individual hand inspection of **every** blade is evidence of their commitment to provide a dependable and long-lasting blade. The following list itemizes the most outstanding features of these blades:

- 1) Thin-Kerf Tooth that increases cutting speed and ease;
- 2) C³ Sub-Micrograin Carbide Teeth (smaller carbide grain size allows for sharper grind and longer, sharper life;
- 3) Vents (Helps blade run cooler);
- 4) Fully Hardened Thin Plate (resists warping);
- 5) Shoulder (reduces chance of kick-back if overfed);
- 6) Expansion Slots (helps blade resist warping).

CIRCULAR SAW BLADES

CORDLESS

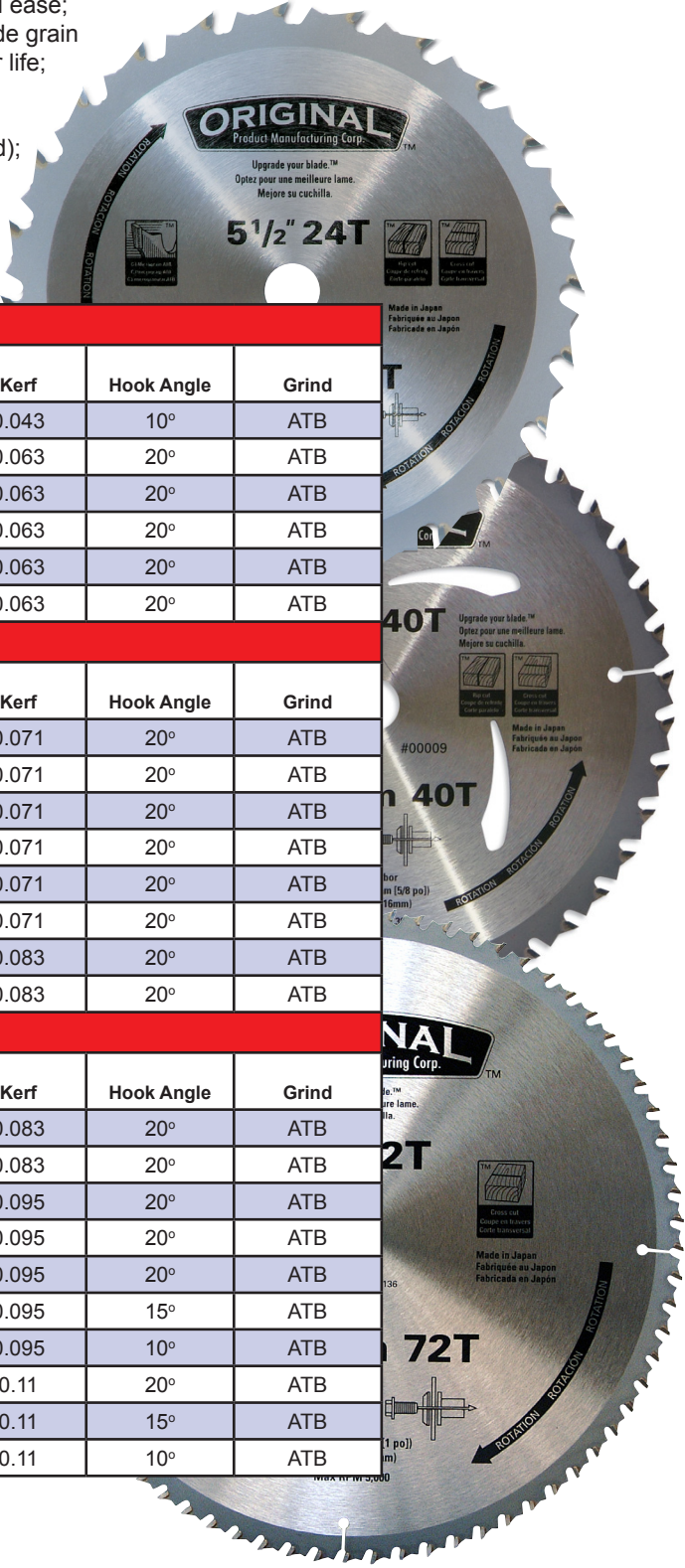
Product Number	Diameter	Teeth	Arbor (Bore Inches)	Kerf	Hook Angle	Grind
00020	3-3/8"	20	15mm	0.043	10°	ATB
00021	5-3/8"	24	10mm	0.063	20°	ATB
00022	5-1/2"	24	1/2"	0.063	20°	ATB
00029	6-1/2"	18	5/8"	0.063	20°	ATB
00025	6-1/2"	24	5/8"	0.063	20°	ATB
00026	6-1/2"	40	5/8"	0.063	20°	ATB

CORDED

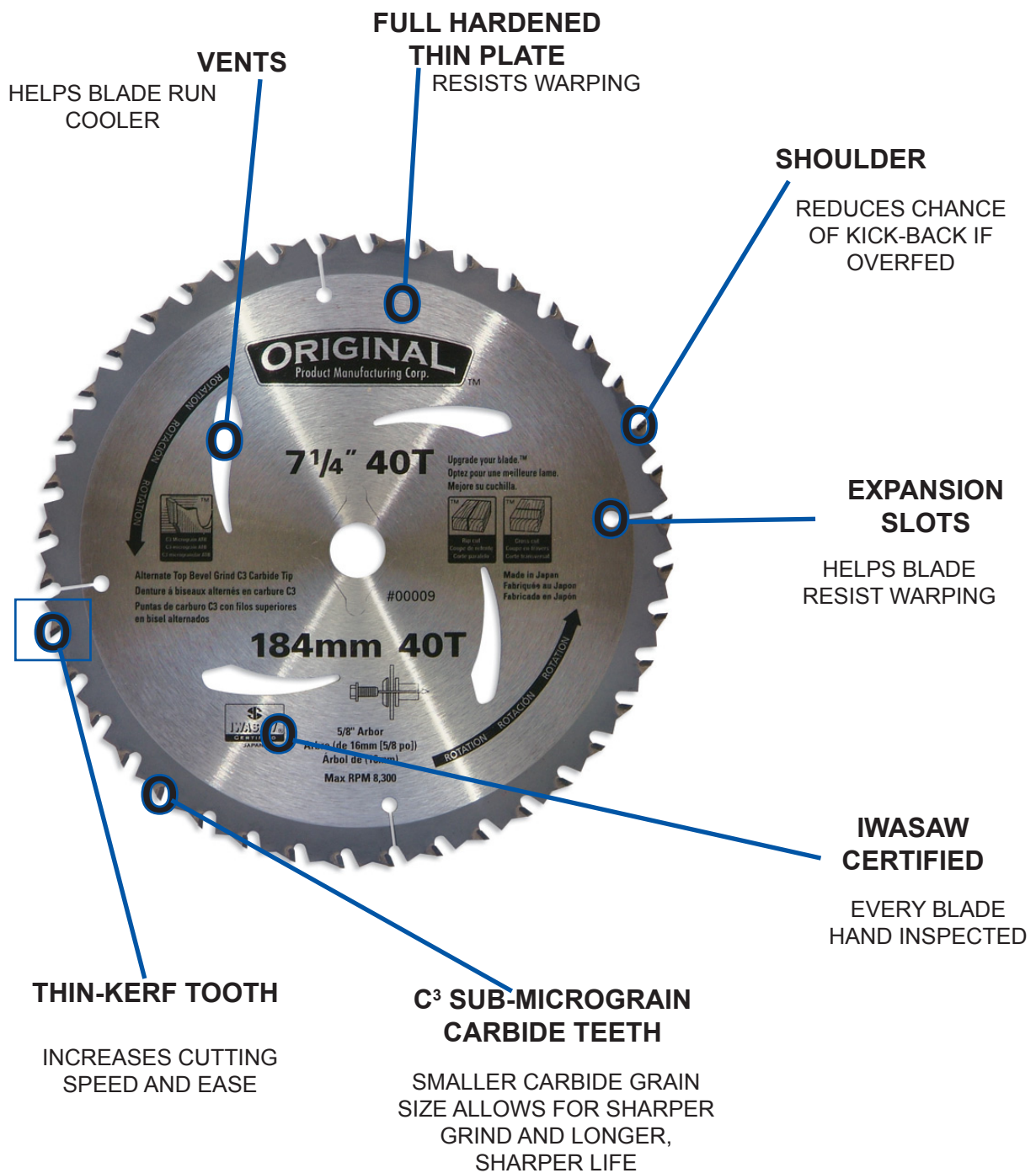
Product Number	Diameter	Teeth	Arbor (Bore Inches)	Kerf	Hook Angle	Grind
00019	6-1/2"	20	5/8" Diamond	0.071	20°	ATB
00006	7-1/4"	18	5/8" Diamond	0.071	20°	ATB
00003	7-1/4"	24	5/8" Diamond	0.071	20°	ATB
00012	7-1/4" Deck	24	5/8" Diamond	0.071	20°	ATB
00093	7-1/4" Green Deck	24	5/8" Diamond	0.071	20°	ATB
00009	4-1/4"	40	5/8" Diamond	0.071	20°	ATB
00015	8-1/4"	24	5/8" Diamond	0.083	20°	ATB
00016	8-1/4"	40	5/8" Diamond	0.083	20°	ATB

TABLE SAW / MITER SAW

Product Number	Diameter	Teeth	Arbor (Bore Inches)	Kerf	Hook Angle	Grind
00015	8-1/4"	24	5/8" Diamond	0.083	20°	ATB
00016	8-1/4"	40	5/8" Diamond	0.083	20°	ATB
00101	10"	24	5/8"	0.095	20°	ATB
00125	10"	40	5/8"	0.095	20°	ATB
00124	10" Deck	40	5/8"	0.095	20°	ATB
00122	10"	60	5/8"	0.095	15°	ATB
00130	10"	80	5/8"	0.095	10°	ATB
00123	12"	40	1"	0.11	20°	ATB
00136	12"	72	1"	0.11	15°	ATB
00140	12"	100	1"	0.11	10°	ATB



CIRCULAR SAW BLADES TECHNICAL POINTS



Saw Blades

CIRCULAR SAW BLADES for STEEL/METAL CUTTING

STEEL

Product Number	Diameter	Teeth	Arbor (Bore Inches)	Kerf	Hook Angle	Grind
00401	5-3/8"	30	20 mm	0.059	0°	C6 MTCG
00404	6-1/2"	40	5/8"	0.079	0°	C6 TCG
00410	7-1/4"	40	5/8"/DIAMOND	0.079	0°	C6 TCG
00415	8"	40	5/8"	0.079	0°	C6 TCG
00425	10"	52	5/8"	0.079	0°	C6 TCG
00426	12"	60	1"	0.087	0°	C6 TCG
00430	14"	66	1"	0.095	0°	C6 TCG

THIN STEEL

Product Number	Diameter	Teeth	Arbor (Bore Inches)	Kerf	Hook Angle	Grind
00405	6-1/2"	40	5/8"	0.063	5°	C6 ATB
00411	7-1/4"	68	5/8" Diamond	0.063	5°	C6 ATB
00427	12"	80	1"	0.087	5°	C6 MTCG
00431	14"	90	1"	0.095	5°	C6 MTCG

ALUMINUM

Product Number	Diameter	Teeth	Arbor (Bore Inches)	Kerf	Hook Angle	Grind
00402	5-3/8"	50	20 mm	0.063	5°	C3 FTG
00406	6-1/2"	60	5/8"	0.079	5°	C3 FTG
00412	7-1/4"	60	5/8" Diamond	0.079	5°	C3 FTG
00424	10"	80	5/8"	0.095	5°	C3 TCG
00432	14"	80	1"	0.11	10°	C3 TCG

STEEL AND ALUMINUM RPM RECOMMENDATIONS

Diameter	RPM Maximum
5-3/8"	7000
6-1/2"	5800
7-1/4"	5800
10"	5200
12"	2000
14"	1800



Custom Saw Blades

Saw blades explained

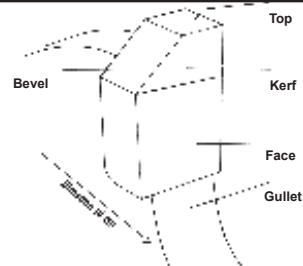
Grind — The alternating pattern of bevels on the teeth. Each tooth has a single bevel, two bevels or no bevel at all. More than any other factor, it is the grind that indicates a blade's specific cutting application.

Kerf — The face thickness of the tooth, where the actual cutting takes place.

Naturally, the thinner the kerf, the less material gets removed during cutting, and that results in reduced chip load.

Number of Teeth — In general, feed rate, RPMs & material being cut affect the number of teeth used in a specific application.

Of course, other factors such as cutting application will affect the number of teeth and grind recommendation. Call FOREST CITY TOOL with any questions you have about selecting the right blade.



Full service for your saw blades

FOREST CITY TOOL offers a complete range of services for saw blades. When we receive your saw blade, we first thoroughly clean and inspect it for damage or wear. We replace loose or damaged carbide tips with tips of an equal or superior grade and resharpen them to exacting standards.

We can also straighten, retension and perform many other services on all types of circular saws. For more information about FOREST CITY TOOL Service, Contact us at 828-322-4266.

Our facilities are equipped to do all types of repair work including the retipping of cutters, saws, or router bits and the sharpening of cutters, saws, drills, router bits, etc. **Anything we sell, we can service.**

Please send your repair work to:

FOREST CITY TOOL
620 23rd Street NW
Hickory, NC 28601
828-322-4266

How to order

While FOREST CITY TOOL can provide any blade to your specifications, our experience leads us to request that you provide the information listed to insure that you receive the right saw for your application.

Please include the following:

- | | |
|--------------------|-----------------------|
| 1. Diameter | 5. Tooth Grind |
| 2. Plate Thickness | 6. Kerf |
| 3. Bore Size | 7. Hook Angle |
| 4. Number of Teeth | 8. Material being cut |

Bring us your toughest job. We'll make a saw blade that does it.

What do you need? A special saw blade? A blade for a special application? Something you can't find in any catalog?

Just tell FOREST CITY TOOL about it. We'll listen to what you need, maybe make a few suggestions, look over any drawings or material samples you want to show us. And then we'll turn all of that information into a saw blade that gets the job done.

Quality construction in every custom saw blade

- Our facilities include state-of-the-art, microprocessor-based equipment, for precision grinding that insures superior accuracy & quality.
- Our skilled machine operators are true craftsmen. That's why every custom blade we manufacture is ground by a single operator.
- Your exact specifications are ensured by hand-tensioning every blade. And naturally we test blades at the factory before they leave.

Gullet —
The space between teeth that clears the work piece of chips after the cut.

Hook Angle —
The "attack angle" of the teeth. Harder, more brittle materials need a shallower angle to ease pressure against the material and reduce chip out. Softer materials require a sharper angle to reduce chip out.



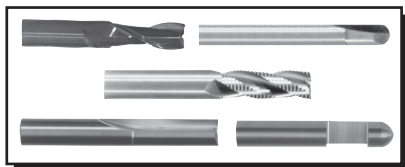
Expansion Slots —
The spaces that allow a blade to expand as it heats up during cutting. It eliminates warpage by cooling the blade.

Plate —
The body of the steel blade on which the teeth are welded.

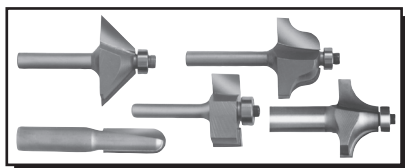
Bore —
The arbor by which the saw blade is mounted on the saw. Available in various sizes.



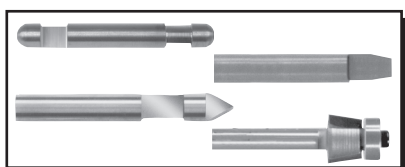
Router Bits



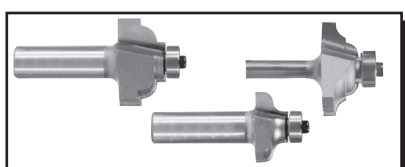
Solid Carbide Spiral & Straight



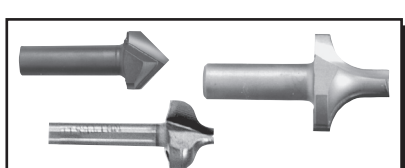
Carbide Tipped Straight Bits



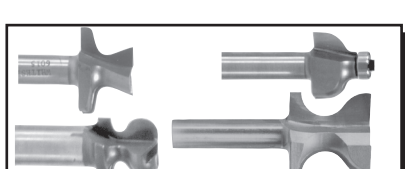
Form Tools



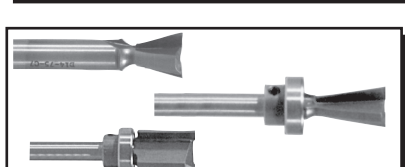
Flush Trim Bits



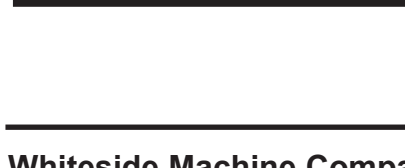
Laminate Trim Bits



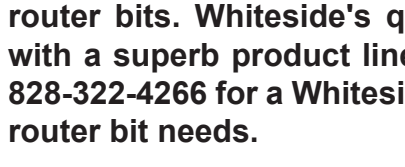
Solid Surface Bits



Profile Bits



Glue Joints



Groove Profiling



Cabinet Making

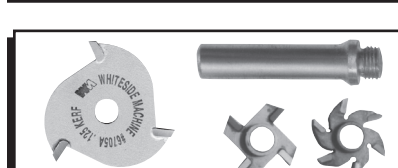
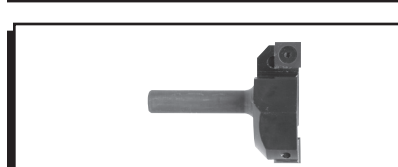
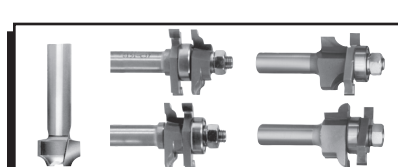
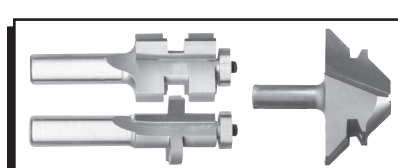
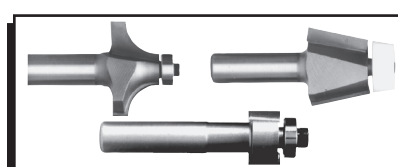
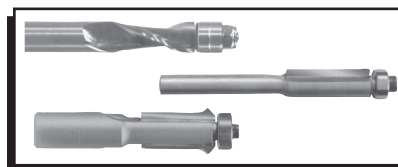
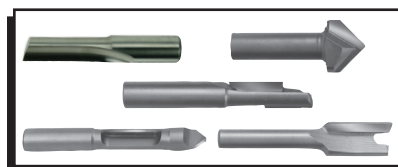


Window Bits

CNC Spoilboard Surfacing

Dovetails

Accessories



Whiteside Machine Company offers a complete line of solid carbide and carbide tipped router bits. Whiteside's quality, innovation, and customer commitment provides you with a superb product line as well as custom application tooling. Contact us today at 828-322-4266 for a Whiteside catalog or to answer questions. Let us take care of all your router bit needs.

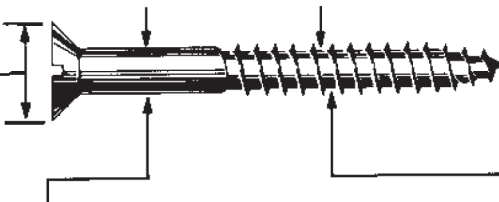
Boring Chart and Glossary

Boring Chart For Wood Screws

How To Use This Chart

The table of wood screw specifications simplifies the selection of the bit or drill size best suited to your requirements. The fractional equivalents and undersize and oversize decimals indicate how close a bit of given fractional size will bore to the actual screw dimension and whether the fit will be snug or loose. In selecting a tool size for the pilot hole (for threaded portion of screw), note that root diameters are average dimensions measured at the middle of the threaded portion. On some screws the root diameter tapers slightly from the end of the screw, increasing toward the head. It is usually good practice to bore the pilot hole the

same size as the root diameter in hardwoods, such as oak, and about 15% smaller for soft woods, such as pine and Douglas Fir. In some cases, allowances can be made to advantage for moisture content and other varying factors. This same rule can be used for shank holes. The SHANK DIAMETERS shown below are standard specifications subject to tolerances of +.004 to -.007. MAXIMUM HEAD DIAMETERS are also standard specifications which apply to flat and ovalhead screws. Head sizes run from 5% to 10% smaller for round-head screws.



No. of Screw	Maximum Head Diameter	Basic Dec. Size	Shank Diameter		Average Dec. Size	Root Diameter		Threads Per Inch	No. of Screw	
			Nearest Fractional Equivalent	Oversize		Nearest Fractional Equivalent	Oversize			
0	.119	.060	1/16	Oversize	.002	3/64	Oversize	.007	32	0
1	.146	.073	5/64	Oversize	.005	3/64	Basic Size		28	1
2	.172	.086	3/32	Oversize	.007	1/16	Oversize	.008	26	2
3	.199	.099	7/64	Oversize	.010	1/16	Undersize	.002	24	3
4	.225	.112	7/64	Undersize	.003	5/64	Oversize	.003	22	4
5	.252	.125	1/8	Basic Size		5/64	Undersize	.007	20	5
6	.279	.138	9/64	Oversize	.002	3/32	Basic Size		18	6
7	.305	.151	5/32	Oversize	.005	7/64	Oversize	.007	16	7
8	.332	.164	5/32	Undersize	.007	7/64	Undersize	.003	15	8
9	.358	.177	11/64	Undersize	.005	1/8	Oversize	.003	14	9
10	.385	.190	3/16	Undersize	.002	1/8	Undersize	.005	13	10
11	.411	.203	13/64	Basic Size		9/64	Oversize	.001	12	11
12	.438	.216	7/32	Oversize	.003	9/64	Undersize	.007	11	12
14	.491	.242	1/4	Oversize	.008	5/32	Undersize	.009	10	14
16	.544	.268	17/64	Undersize	.002	3/16	Oversize	.003	9	16
18	.597	.294	19/64	Oversize	.003	13/64	Undersize	.001	8	18
20	.650	.320	5/16	Undersize	.007	7/32	Undersize	.004	8	20
24	.756	.372	3/8	Oversize	.003	1/4	Undersize	.010	7	24

Glossary

Brad Point - A boring point with a brad point to center the drill and outlining spurs.
 Counterbore - A boring tool with a lead drill in the center that produces a flat recessed hole.
 Countersink - A boring tool with a lead drill in the center that produces a beveled recessed hole.
 Carbide-Tipped Router Bit - A router bit with a tungsten carbide cutting edge.
 Carving Bit - Bits used on a multispindle duplicating machine to carve wood parts.
 Carving Cutter - Cutters of various designs, usually with many wings, used on a high-speed spindle for freehand carving.
 Center Drill - The lead drill that is mounted in the center of a countersink or counterbore.
 Chisel Bit - A boring bit used inside a mortising chisel.
 Corrugated Back Moulder Head - A round moulder head grooved on the back of the knife slot to accept steel with matching grooves.
 Corrugated Back Steel - Steel made up in 25" bars with V-grooves or corrugations on the back.
 Dovetail Bit - A bit used to produce a dovetail joint.
 Dowel Drill - A drill with a screw shank used to bore dowel holes.
 Fixed Center Boring Head - A head with boring spindles on fixed centers.
 Lathe Carrier - A part that attaches to a lathe cylinder and holds the lathe knife.
 Lathe Cylinder - The body to which all other parts of a lathe head are attached.

Lathe Head - A cutter head built of lathe equipment used to make lathe turnings.
 Lathe Knife - A high-speed steel knife used in lathe head construction.
 Lead-Off - A condition created when a drill follows the grain of the wood or bores on an angle instead of a straight line.
 Machine Drill - A drill with a straight 1/2" diameter shank.
 Metric Drill - A carbide-tipped drill with straight shank and metric dimensions. Used on European boring machines.
 Mortising Chisel - A tool used to produce a square hole which is the female portion of a mortise and tenon joint.
 Plug Cutter - A tool used in a drill press to produce round wooden plugs.
 Router Bit - A tool with a straight shank that operates at high speed and is used for cutting grooves and straight edges.
 Router Blank - A large, flat, high-speed steel router bit that is ground to cut a specific design.
 Screw Shank Counterbore - A counterbore with a threaded shank.
 Screw Shank Countersink - A countersink with a threaded shank.
 Spiral Flute Router Bit - A router bit with a spiral flute design similar to a drill twist.
 Straight Shank Counterbore - A counterbore with a straight 1/2" diameter shank.
 Straight Shank Countersink - A countersink with a straight 1/2" diameter shank.
 Thin Knife Steel - High-speed steel knives made in bars up to 31" long with a smooth back.

Decimal and Metric Equivalents

Decimal Equivalents

OF WIRE, LETTER, AND FRACTIONAL SIZE DRILLS

Drill Size		Drill Size		Drill Size		Drill Size	
No.	Decimal	No.	Decimal	No.	Decimal	No.	Decimal
80	.0135	42	.0935	13/64	.2031	13/32	.4062
79	.0145	3/32	.0937	6	.2040	Z	.4130
1/64	.0156	41	.0960	5	.2055	27/64	.4219
78	.0160	40	.0980	4	.2090	7/16	.4375
77	.0180	39	.0995	3	.2130	29/64	.4531
76	.0200	38	.1015	7/32	.2187	15/32	.4687
75	.0210	37	.1040	2	.2210	31/64	.4843
74	.0225	36	.1065	1	.2280	1/2	.5000
73	.0240	7/64	.1093	A	.2340	33/64	.5156
72	.0250	35	.1100	15/64	.2344	17/32	.5313
71	.0260	34	.1110	B	.2380	35/64	.5469
70	.0280	33	.1130	C	.2420	9/16	.5625
69	.0292	32	.1160	D	.2460	37/64	.5781
68	.0310	31	.1200	E 1/4	.2500	19/32	.5937
1/32	.0313	1/8	.1250	F	.2570	39/64	.6094
67	.0320	30	.1285	G	.2610	5/8	.6250
66	.0330	29	.1360	17/64	.2656	41/64	.6406
65	.0350	28	.1405	H	.2660	21/32	.6582
64	.0360	9/64	.1406	I	.2720	43/64	.6719
63	.0370	27	.1440	J	.2770	11/16	.6875
62	.0380	26	.1470	K	.2811	45/64	.7031
61	.0390	25	.1495	9/32	.2812	23/32	.7187
60	.0400	24	.1520	L	.2900	47/64	.7344
59	.0410	23	.1540	M	.2950	3/4	.7500
58	.0420	5/32	.1562	19/64	.2968	49/64	.7656
57	.0430	22	.1570	N	.3020	25/32	.7812
56	.0465	21	.1590	5/16	.3125	51/64	.7969
3/64	.0469	20	.1610	O	.3160	13/16	.8125
55	.0520	19	.1660	P	.3230	53/64	.8281
54	.0550	18	.1695	21/64	.3281	27/32	.8437
53	.0595	11/64	.1719	Q	.3320	55/64	.8594
1/16	.0625	17	.1730	R	.3390	7/8	.8750
52	.0635	16	.1770	11/32	.3437	57/64	.8906
51	.0670	15	.1800	S	.3480	29/32	.9062
50	.0700	14	.1820	T	.3580	59/64	.9219
49	.0730	13	.1850	23/64	.3594	15/16	.9375
48	.0760	3/16	.1875	U	.3680	61/64	.9531
5/64	.0781	12	.1890	3/8	.3750	31/32	.9687
47	.0785	11	.1910	V	.3770	63/64	.9844
46	.0810	10	.1935	W	.3860	1	1.0000
45	.0820	9	.1960	25/64	.3906		
44	.0860	8	.1990	X	.3970		
43	.0890	7	.2010	Y	.4040		

Millimeter Equivalents

MM = INCHES	MM = INCHES	MM = INCHES	MM = INCHES	MM = INCHES	MM = INCHES
.1 = .00394	12 = .47244	30 = 1.18110	49 = 1.92913	66 = 2.59842	84 = 3.30708
.2 = .00787	12.7 = .5 in.	31 = 1.22047	50 = 1.96850	67 = 2.63779	85 = 3.34645
.3 = .01181	13 = .51181	32 = 1.25984	50.8 = 2. ins.	68 = 2.67716	86 = 3.38582
.4 = .01575	14 = .55118	33 = 1.29921	51 = 2.00787	69 = 2.71653	87 = 3.42519
.5 = .01968	15 = .59055	34 = 1.33858	52 = 2.04724	70 = 2.75590	88 = 3.46456
.6 = .02362	16 = .62992	35 = 1.37795	53 = 2.08661	71 = 2.79527	88.9 = 3.5 ins.
.7 = .02756	17 = .66929	36 = 1.41732	54 = 2.12598	72 = 2.83464	89 = 3.50393
.8 = .03149	18 = .70866	37 = 1.45669	55 = 2.16535	73 = 2.87401	90 = 3.54330
.9 = .03543	19 = .74803	38 = 1.49606	56 = 2.20472	74 = 2.91338	91 = 3.58267
1 = .03937	20 = .78740	38.1 = 1.5 ins.	57 = 2.24409	75 = 2.95275	92 = 3.62204
2 = .07874	21 = .82677	39 = 1.53543	58 = 2.28346	76 = 2.99212	93 = 3.66141
3 = .11811	22 = .86614	40 = 1.57480	59 = 2.32283	76.2 = 3. ins.	94 = 3.70078
4 = .15748	23 = .90551	41 = 1.61417	60 = 2.36220	77 = 3.03149	95 = 3.74015
5 = .19685	24 = .94488	42 = 1.65354	61 = 2.40157	78 = 3.07086	96 = 3.77952
6 = .23622	25 = .98425	43 = 1.69291	62 = 2.44094	79 = 3.11023	97 = 3.81889
7 = .27559	25.4 = 1. in.	44 = 1.73228	63 = 2.48031	80 = 3.14960	98 = 3.85826
8 = .31496	26 = 1.02362	45 = 1.77165	63.5 = 2.5 ins.	81 = 3.18897	99 = 3.89763
9 = .35433	27 = 1.06299	46 = 1.81102	64 = 2.51968	82 = 3.22834	100 = 3.93700
10 = .39370	28 = 1.10236	47 = 1.85039	65 = 2.55905	83 = 3.26771	101.6 = 4. ins.
11 = .43307	29 = 1.14173	48 = 1.88976			

Forest City Hollow Chisel and Bit Maintenance

How To Reduce Breakage

Hollow Chisels and Bits are made for long, hard use. With reasonable and proper care you can obtain good service from these dependable tools. Adjust bit and chisel carefully. If the bit head comes in contact with the cutting bevel of the chisel, excessive heating occurs and the metal will crystallize. A clearance of about $1/32$ " at point "A" should be maintained at all times. On chisels larger than $3/4$ " this clearance should be increased to $1/16$ ". Excessive clearance is equally harmful and should be avoided.

1. Insert proper size bit through chisel opening.
2. Place chisel bushing on chisel shank.
3. Slide correct bit bushing on bit shank. Be sure end of shank hits bottom of bushing.
4. Raise entire assembly up through chisel socket and tighten bit bushing lightly.
5. Position chisel bushing in chisel socket with $1/32$ " spacer.
6. Push chisel upward, then tighten chisel bushing set screw.
7. Push bit upward as far as it will go. Tighten bit set screw against bushing securely. Screw knurled nut up as far as it will go.
8. Loosen chisel and remove spacer. Square up chisel with fence. Raise chisel up as far as it will go. Tighten chisel set screw against the bushing flat.

To obtain maximum performance from your Hollow Chisels and Bits be sure to:

1. Fasten tools securely.
2. Maintain proper spindle alignment.
3. Replace badly worn bushings.
4. Replace badly worn bits.
5. Keep tools sharpened and in good condition at all times.

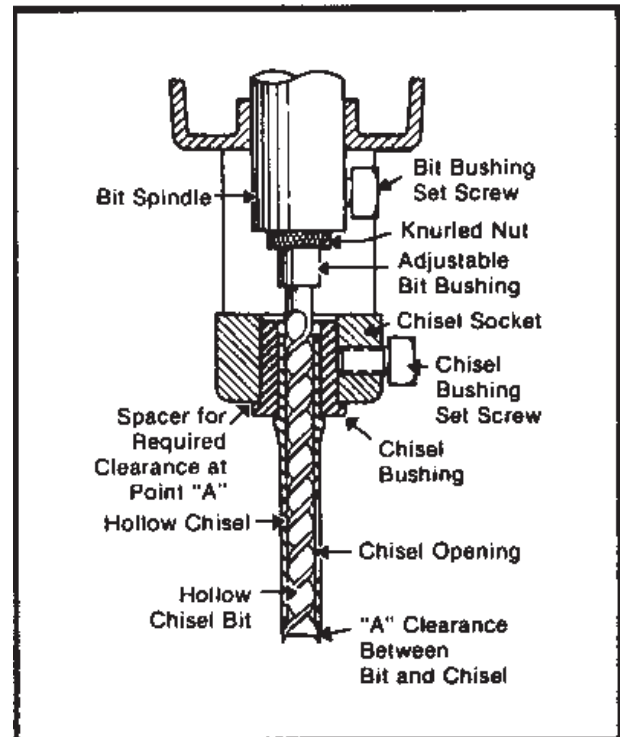
Sharpening Hollow Chisel Bits

A Hollow Chisel Bit should produce a fine, well-broken chip that can be readily cleared through the chisel. It can only do this when its edges are sharp and shaped as found on a new tool. File the cutting edges of a bit from below, working through the throat. The spurs and side lips, where applicable, should be sharp and lined up evenly with the cutting edges. Filing spurs should be done on the inside only on the regular Hollow Chisel Bits.

Half-round and taper warding files are best suited to bit sharpening.

Oblong Mortising Precautions

When making oblong mortises up to $1/2$ " in width do not make consecutive cuts. The resulting unequal pressure brought on by cutting with three sides of the chisel may cause it to bend or break. If the chisel bends and contacts the rotation bit, both tools can be damaged beyond repair. Alternate strokes should be used thus equalizing pressure by cutting on four sides with the first passes and two sides on the final passes, taking care to cut in center of chisel.



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